



Protective & Marine

Water & Wastewater Guide

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Coating Systems for Water Treatment Facilities

Raw Water Intake — Non-Immersion

Process Description

Water is drawn from the municipalities' raw water supply through the raw water intake structure and pump station. The raw water intake filters out large debris from the water source like trash, logs and leaves. The water is taken into a pump station through large diameter piping, where it is pumped to the next step in the water treatment process.

Areas of Application

- Concrete – Cast-In-Place Concrete
- Misc. Steel and Piping

Recommended Applications

- New Construction
 - Concrete/CMU
 - Steel
- Rehabilitation/Repaint
 - Concrete/CMU
 - Steel



See Product Data Sheets for additional information.

*Options for coating systems offer:

Concrete/CMU:

Flexible Sand Texture Waterproof Coating

Economical, Industrial, Acrylic Coating

HB Water Based Epoxy for improved cleaning

Steel:

Immersion Grade Polyamide Epoxy

Low Temp, Immersion Grade Polyamine Epoxy

Moisture Tolerant Epoxy System for sweating conditions

New Construction Concrete/CMU	Filler	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Flexible Waterproof Coating	N/A	As Required	ConFlex® SherLastic®	8.0 – 12.0 mils	ConFlex SherLastic	8.0 – 12.0 mils	16.0 – 24.0 mils
Acrylic	Heavy Duty Block Filler	75.0 – 80.0 Sq Ft/Gal	DTM Acrylic	2.0 – 4.0 mils	DTM Acrylic	2.0 – 4.0 mils	4.0 – 8.0 mils
WB Epoxy	Heavy Duty Block Filler	75.0 – 80.0 Sq Ft/Gal	Pro Industrial® Catalyzed WB Epoxy	2.0 – 5.0 mils	Pro Industrial Catalyzed WB Epoxy	2.0 – 5.0 mils	4.0 – 10.0 mils

New Construction Steel	Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Polyamide Epoxy	Macropoxy® 646	4.0 – 6.0 mils	N/A	N/A	Macropoxy 646	4.0 – 6.0 mils	8.0 – 12.0 mils
Low Temp Amine Cured Epoxy	Dura-Plate® 235	4.0 – 6.0 mils	N/A	N/A	Dura-Plate 235	4.0 – 6.0 mils	8.0 – 12.0 mils
Moisture Tolerant Epoxy	Dura-Plate® 301	4.0 – 6.0 mils	N/A	N/A	Dura-Plate 301	4.0 – 6.0 mils	8.0 – 12.0 mils



Coating Systems for Water Treatment Facilities

Raw Water Intake — Non-Immersion

Repaint Concrete/CMU	Filler	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Flexible Waterproof Coating	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam® FT910	As Required	ConFlex SherLastic	8.0 – 12.0 mils	ConFlex SherLastic	8.0 – 12.0 mils	16.0 – 24.0 mils
Acrylic	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	DTM Acrylic	2.0 – 4.0 mils	DTM Acrylic	2.0 – 4.0 mils	4.0 – 8.0 mils
WB Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Pro Industrial Catalyzed WB Epoxy	2.0 – 5.0 mils	Pro Industrial Catalyzed WB Epoxy	2.0 – 5.0 mils	4.0 – 10.0 mils

Repaint Steel	Epoxy Repair	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Polyamide Epoxy	Steel-Seam FT910	As Required	Macropoxy 646	4.0 – 6.0 mils	Macropoxy 646	4.0 – 6.0 mils	8.0 – 12.0 mils
Polyamidoamine Epoxy	Steel-Seam FT910	As Required	Macropoxy® 5500LT	6.0 – 14.0 mils	Macropoxy 5500LT	6.0 – 14.0 mils	12.0 – 28.0 mils
Low Temp Amine Cured Epoxy	Steel-Seam FT910	As Required	Dura-Plate 235	4.0 – 6.0 mils	Dura-Plate 235	4.0 – 6.0 mils	8.0 – 12.0 mils
Moisture Tolerant Epoxy	Steel-Seam FT910	As Required	Dura-Plate 301	4.0 – 6.0 mils	Dura-Plate 301	4.0 – 6.0 mils	8.0 – 12.0 mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.

*** Cementitious Repair Mortars are distributed by A.W. Cook Cements.



Coating Systems for Water Treatment Facilities

Coagulation Tanks

Process Description

Water is pumped into the plant, where it enters a process of chemical addition known as coagulation. Coagulation is a process where the chemical addition binds the particulate together to create a larger particle size. Chlorine may be added during this process to kill bacteria.

Areas of Application

- Concrete – Cast-In-Place Concrete
- Misc. Steel

Recommended Applications

- New Construction
 - Concrete
 - Steel
- Rehabilitation/Repaint
 - Concrete
 - Steel



See Product Data Sheets for additional information.

*Options for coating systems offer:

Polyamide Epoxy as an economical option

Low Temp Cure Phenalkamine Epoxy

Low Temp Polyamidoamine Epoxy

High Build Amine Cured Epoxy for filling minor surface imperfections

High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service

New Construction Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
100% Solids Amine Cured Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate® UHS Primer	4.0 – 8.0 mils	Dura-Plate® UHS	25.0 – 40.0 mils	29.0 – 48.0 mils
High Build Reinforced Amine Cure Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS Primer (Optional to control Out-Gassing)	4.0 – 8.0 mils	Dura-Plate® 6000 Reinforced Epoxy	50.0 – 125.0 mils	54.0 – 133.0
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS Primer	4.0 – 8.0 mils	Poly-Cote™ 115	50.0 – 250.0 mils	56.0 – 258.0

New Construction Steel	Epoxy Filler	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Phenalkamide Epoxy	Steel-Seam FT910	As Required	Sherplate 600	5.0 – 10.0 mils	Sherplate 600	5.0 – 10.0 mils	10.0 – 20.0 mils
High Build Amine Cured Epoxy	Steel-Seam FT910	As Required	Dura-Plate UHS Primer	8.0 – 10.0 mils	Dura-Plate UHS	8.0 – 14.0 mils	16.0 – 24.0 mils
Polyamidoamine Epoxy	Steel-Seam FT910	As Required	Macropoxy 5500LT	6.0 – 14.0 mils	Macropoxy 5500LT	6.0 – 14.0 mils	12.0 – 28.0 mils



Coating Systems for Water Treatment Facilities

Coagulation Tanks

Rehabilitation Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
100% Solids Amine Cured Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS Primer	4.0 – 8.0 mils	Dura-Plate UHS	25.0 – 40.0 mils	29.0 – 48.0 mils
High Build Amine Cured Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS Primer (Optional to control Out-Gassing)	4.0 – 8.0 mils	Dura-Plate 6000 Reinforced Epoxy	50.0 – 125.0 mils	54.0 – 133.0 mils
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS Primer	4.0 – 8.0 mils	Poly-Cote 115	50.0 – 250.0 mils	56.0 – 258.0 mils

Repaint Steel	Epoxy Repair	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Phenalkamide Epoxy	Steel-Seam FT910	As Required	Sherplate 600	5.0 – 10.0 mils	Sherplate 600	5.0 – 10.0 mils	10.0 – 20.0 mils
High Build Amine Cured Epoxy	Steel-Seam FT910	As Required	Dura-Plate UHS Primer	8.0 – 10.0 mils	Dura-Plate UHS	8.0 – 14.0 mils	16.0 – 24.0 mils
Polyamidoamine Epoxy	Steel-Seam FT910	As Required	Macropoxy 5500LT	6.0 – 14.0 mils	Macropoxy 5500LT	6.0 – 14.0 mils	12.0 – 28.0 mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.

*** Cementitious Repair Mortars are distributed by A.W. Cook Cements.



Coating Systems for Water Treatment Facilities

Flocculation Basins

Process Description

Water is sent into a flocculation basin, where the chemical coagulants and water are mixed to get the particles to floc together. These may be concrete basins with low speed agitators to aid in binding the particles together.

Areas of Application

- Concrete – Cast-In-Place Concrete
- Misc. Steel

Recommended Applications

- New Construction
 - Concrete
 - Steel
- Rehabilitation/Repaint
 - Concrete
 - Steel



See Product Data Sheets for additional information.

*Options for coating systems offer:
 Polyamide Epoxy as an economical option
 Low Temp Cure Phenalkamine Epoxy
 Low Temp Polyamidoamine Epoxy
 High Build Amine Cured Epoxy for filling minor surface imperfections
 High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service

New Construction Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
100% Solids Amine Cured Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS Primer	4.0 – 8.0 mils	Dura-Plate UHS	25.0 – 40.0 mils	39.0 – 48.0 mils
High Build Reinforced Amine Cure Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS Primer (Optional to control Out-Gassing)	4.0 – 8.0 mils	Dura-Plate 6000 Reinforced Epoxy	50.0 – 125.0 mils	54.0 – 133.0
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS Primer	4.0 – 8.0 mils	Poly-Cote 115	50.0 – 250.0 mils	56.0 – 258.0

New Construction Steel	Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Phenalkamide Epoxy	Steel-Seam FT910	As Required	Sherplate 600	5.0 – 10.0 mils	Sherplate 600	5.0 – 10.0 mils	10.0 – 20.0 mils
High Build Amine Cured Epoxy	Steel-Seam FT910	As Required	Dura-Plate UHS Primer	8.0 – 10.0 mils	Dura-Plate UHS	8.0 – 14.0 mils	16.0 – 24.0 mils
Polyamidoamine Epoxy	Steel-Seam FT910	As Required	Macropoxy 5500LT	6.0 – 14.0 mils	Macropoxy 5500LT	6.0 – 14.0 mils	12.0 – 28.0 mils



Coating Systems for Water Treatment Facilities

Flocculation Basins

Rehabilitation Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
100% Solids Amine Cured Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS Primer	4.0 – 8.0 mils	Dura-Plate UHS	25.0 – 40.0 mils	29.0 – 48.0 mils
High Build Reinforced Amine Cure Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS Primer (Optional to control Out-Gassing)	4.0 – 8.0 mils	Dura-Plate 6000 Reinforced Epoxy	50.0 – 125.0 mils	54.0 – 133.0
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS Primer	4.0 – 8.0 mils	Poly-Cote 115	50.0 – 250.0 mils	56.0 – 258.0

Repaint Steel	Epoxy Repair	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Phenalkamide Epoxy	Steel-Seam FT910	As Required	Sherplate 600	5.0 – 10.0 mils	Sherplate 600	5.0 – 10.0 mils	10.0 – 20.0 mils
High Build Amine Cured Epoxy	Steel-Seam FT910	As Required	Dura-Plate UHS Primer	8.0 – 10.0 mils	Dura-Plate UHS	8.0 – 14.0 mils	16.0 – 24.0 mils
Polyamidoamine Epoxy	Steel-Seam FT910	As Required	Macropoxy 5500LT	6.0 – 14.0 mils	Macropoxy 5500LT	6.0 – 14.0 mils	12.0 – 28.0 mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.

*** Cementitious Repair Mortars are distributed by A.W. Cook Cements.



Coating Systems for Water Treatment Facilities

Sedimentation Basins

Process Description

Water enters into this process where the particles, now flocculated together, are allowed to settle out of the water. Typically, these are large concrete tanks that appear to have an almost stagnant flow of water.

Areas of Application

- Concrete – Cast-In-Place Concrete
- Misc. Steel

Recommended Applications

- New Construction
 - Concrete
 - Steel
- Rehabilitation/Repaint
 - Concrete
 - Steel



See Product Data Sheets for additional information.

*Options for coating systems offer:

Polyamide Epoxy as an economical option

Low Temp Cure Phenalkamine Epoxy

Low Temp Polyamidoamine Epoxy

High Build Amine Cured Epoxy for filling minor surface imperfections

High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service

New Construction Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
100% Solids Amine Cured Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS Primer	4.0 – 8.0 mils	Dura-Plate UHS	25.0 – 40.0 mils	29.0 – 48.0 mils
High Build Reinforced Amine Cure Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS Primer (Optional to control Out-Gassing)	4.0 – 8.0 mils	Dura-Plate 6000 Reinforced Epoxy	50.0 – 125.0 mils	54.0 – 133.0
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS Primer	4.0 – 8.0 mils	Poly-Cote 115	50.0 – 250.0 mils	56.0 – 258.0

New Construction Steel	Epoxy Filler	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Phenalkamide Epoxy	Steel-Seam FT910	As Required	Sherplate 600	5.0 – 10.0 mils	Sherplate 600	5.0 – 10.0 mils	10.0 – 20.0 mils
High Build Amine Cured Epoxy	Steel-Seam FT910	As Required	Dura-Plate UHS Primer	8.0 – 10.0 mils	Dura-Plate UHS	8.0 – 14.0 mils	16.0 – 24.0 mils
Polyamidoamine Epoxy	Steel-Seam FT910	As Required	Macropoxy 5500LT	6.0 – 14.0 mils	Macropoxy 5500LT	6.0 – 14.0 mils	12.0 – 28.0 mils



Coating Systems for Water Treatment Facilities

Sedimentation Basins

Rehabilitation Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
100% Solids Amine Cured Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS Primer	4.0 – 8.0 mils	Dura-Plate UHS	25.0 – 40.0 mils	29.0 – 48.0 mils
High Build Reinforced Amine Cure Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS Primer (Optional to control Out-Gassing)	4.0 – 8.0 mils	Dura-Plate 6000 Reinforced Epoxy	50.0 – 125.0 mils	54.0 – 133.0
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS Primer	4.0 – 8.0 mils	Poly-Cote 115	50.0 – 250.0 mils	56.0 – 258.0

Repaint Steel	Epoxy Repair	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Phenalkamide Epoxy	Steel-Seam FT910	As Required	Sherplate 600	5.0 – 10.0 mils	Sherplate 600	5.0 – 10.0 mils	10.0 – 20.0 mils
High Build Amine Cured Epoxy	Steel-Seam FT910	As Required	Dura-Plate UHS Primer	8.0 – 10.0 mils	Dura-Plate UHS	8.0 – 14.0 mils	16.0 – 24.0 mils
Polyamidoamine Epoxy	Steel-Seam FT910	As Required	Macropoxy 5500LT	6.0 – 14.0 mils	Macropoxy 5500LT	6.0 – 14.0 mils	12.0 – 28.0 mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.
 ** Dry Film Thickness (DFT) will vary according to product selected.
 *** Cementitious Repair Mortars are distributed by A.W. Cook Cements.



Coating Systems for Water Treatment Facilities

Filtration Basins

Process Description

Water enters the filter basins through a channel that connects them to the sedimentation basins. The water is gravity-fed through a sand bed, crushed coal (anthracite) and fine filters to remove the remaining small particulates.

Areas of Application

- Concrete – Cast-In-Place Concrete
- Misc. Steel

Recommended Applications

- New Construction
 - Concrete
 - Steel
- Rehabilitation/Repaint
 - Concrete
 - Steel

See Product Data Sheets for additional information.

*Options for coating systems offer:
 Polyamide Epoxy as an economical option
 Low Temp Cure Phenalkamine Epoxy
 Low Temp Polyamidoamine Epoxy
 High Build Amine Cured Epoxy for filling minor surface imperfections
 High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service

New Construction Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
100% Solids Amine Cured Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS Primer	4.0 – 8.0 mils	Dura-Plate UHS	25.0 – 40.0 mils	29.0 – 48.0 mils
High Build Reinforced Amine Cure Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS Primer (Optional to control Out-Gassing)	4.0 – 8.0 mils	Dura-Plate 6000 Reinforced Epoxy	50.0 – 125.0 mils	54.0 – 133.0
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS Primer	4.0 – 8.0 mils	Poly-Cote 115	50.0 – 250.0 mils	56.0 – 258.0

New Construction Steel	Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Phenalkamide Epoxy	Steel-Seam FT910	As Required	Sherplate 600	5.0 – 10.0 mils	Sherplate 600	5.0 – 10.0 mils	10.0 – 20.0 mils
High Build Amine Cured Epoxy	Steel-Seam FT910	As Required	Dura-Plate UHS Primer	8.0 – 10.0 mils	Dura-Plate UHS	8.0 – 14.0 mils	16.0 – 24.0 mils
Polyamidoamine Epoxy	Steel-Seam FT910	As Required	Macropoxy 5500LT	6.0 – 14.0 mils	Macropoxy 5500LT	6.0 – 14.0 mils	12.0 – 28.0 mils



Coating Systems for Water Treatment Facilities

Filtration Basins

Rehabilitation Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
100% Solids Amine Cured Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS Primer	4.0 – 8.0 mils	Dura-Plate UHS	25.0 – 40.0 mils	29.0 – 48.0 mils
High Build Reinforced Amine Cure Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS Primer (Optional to control Out-Gassing)	4.0 – 8.0 mils	Dura-Plate 6000 Reinforced Epoxy	50.0 – 125.0 mils	54.0 – 133.0
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS Primer	4.0 – 8.0 mils	Poly-Cote 115	50.0 – 250.0 mils	56.0 – 258.0

Repaint Steel	Epoxy Repair	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Phenalkamide Epoxy	Steel-Seam FT910	As Required	Sherplate 600	5.0 – 10.0 mils	Sherplate 600	5.0 – 10.0 mils	10.0 – 20.0 mils
High Build Amine Cured Epoxy	Steel-Seam FT910	As Required	Dura-Plate UHS Primer	8.0 – 10.0 mils	Dura-Plate UHS	8.0 – 14.0 mils	16.0 – 24.0 mils
Polyamidoamine Epoxy	Steel-Seam FT910	As Required	Macropoxy 5500LT	6.0 – 14.0 mils	Macropoxy 5500LT	6.0 – 14.0 mils	12.0 – 28.0 mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.

*** Cementitious Repair Mortars are distributed by A.W. Cook Cements.



Coating Systems for Water Treatment Facilities

Membrane Filter Basin

Process Description

This process allows water to pass through the hollow fibers of the membrane, filtering out contaminants in the water source to make them safe for drinking or other intended uses. The process acts to replace traditional gravity-filter basins.

Areas of Application

- Steel – Atmospheric Service Carbon Steel
- Steel – Immersion Service
- Concrete – Immersion Service

Recommended Applications

- New Construction
- Repaint/Rehabilitation

See Product Data Sheets for additional information.

* Options for coating systems:

Atmospheric:

Organic Zinc/Epoxy/Aliphatic Polyurethane
Epoxy/Epoxy/Aliphatic Polyurethane
MCU/MCU/MCU

Immersion:

Steel – Amine Hi-Build Epoxy
Steel – Aromatic Polyurethane Elastomer
Concrete – Aromatic Polyurethane Elastomer



New Construction & Repaint Atmospheric Steel	Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
OZ Primer/Epoxy/Aliphatic Polyurethane	Corothane® I GalvaPac™ 1K/2K Zinc	2.5 – 4.0 mils	Macropoxy 646	3.0 – 5.0 mils	HS Polyurethane/ Acrolon™ Ultra/ HS Polyurethane 250	2.5 – 4.0 mils	8.0 – 13.0 mils
Epoxy/Epoxy/Polysiloxane	Macropoxy 646	3.0 – 5.0 mils	Macropoxy 646 Intermediate Coat Optional	3.0 – 5.0 mils	Sher-Loxane® 800	4.0 – 6.0 mils	10.0 – 16.0 mils
MCU/MCU/MCU	Corothane I GalvaPac 1K/2K Zinc	3.0 – 4.0 mils	Corothane® IronOx® B	3.0 – 5.0 mils	Corothane® I Aliphatic HS	2.0 – 3.0 mils	8.0 – 12.0 mils

New Construction & Repaint Immersion Steel and Concrete	Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Amine Hi-Build Epoxy – Steel	Optional	Optional	N/A	N/A	SherPlate™ PW or DuraPlate UHS	20.0 – 22.0 mils	20.0 – 22.0 mils
Aromatic Polyurethane Elastomer – Steel	Optional	Optional	N/A	N/A	Poly-Cote 115	30.0 – 40.0 mils	30.0 – 40.0 mils
Aromatic Polyurethane Elastomer – Concrete	Dura-Plate UHS Primer	4.0 – 8.0 mils	N/A	N/A	Poly-Cote 115	50.0 – 250.0 mils	54.0 – 258.0 mils
Amine Cure Epoxy Layup	Dura-Plate UHS Primer (Optional to control Out-Gassing)	4.0 – 6.0 mils	Dura-Plate UHS Clear with 1.5 oz Chopped Strand Mat Embedded	40.0 – 50.0 mils with 1.5 oz Chopped Strand Mat Embedded	Dura-Plate UHS	30.0 – 40.0 mils	74.0 – 98.0 mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.



Coating Systems for Water Treatment Facilities

Pipe Galleries

Process Description

The piping is typically located underneath the treatment plant and is used to transfer water from one process of the treatment plant to another. The pipe can range in size from small diameter to large diameter and is most commonly fabricated using ductile iron pipe.

Areas of Application

- Steel
- Ductile Iron Pipe

Recommended Applications

- New Construction
- Repaint

See Product Data Sheets for additional information.

*Options for coating systems offer:

Moisture Tolerant Epoxy for application to condensating pipe
 Moisture Cured Polyurethanes for low temperature cure down to 20°F
 Surface Tolerant Epoxies for marginal surface preparation
 Polyamide Epoxies for economical protection



New Construction	First Coat	Dry Film Thickness (Mils)	Stripe Coat	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Moisture Tolerant Epoxy	Dura-Plate 301	4.0 – 6.0 mils	Dura-Plate 301	4.0 – 6.0 mils	Dura-Plate 301	4.0 – 6.0 mils	8.0 – 12.0 mils (plus stripe coat)
Moisture Cured Polyurethane	Corothane® I MIO-Aluminum	2.0 – 3.0 mils	Corothane I MIO-Aluminum	2.0 – 3.0 mils (Full Coat Required)	Corothane I HS	2.0 – 3.0 mils	6.0 – 9.0 mils (plus stripe coat)
Surface Tolerant Epoxy	Dura-Plate 235	4.0 – 6.0 mils	Dura-Plate 235	4.0 – 6.0 mils	Dura-Plate 235	4.0 – 6.0 mils	8.0 – 12.0 mils (plus stripe coat)
Polyamide Epoxy	Macropoxy 646	4.0 – 6.0 mils	Macropoxy 646	4.0 – 8.0 mils	Macropoxy 646	4.0 – 6.0 mils	8.0 – 12.0 mils (plus stripe coat)
Insulative Coating	Heat-Flex® 1200/Corothane I GalvaPac 1K/2K Zinc	1200 : 5.0 – 6.0 Zinc: 2.0 – 4.0	N/A	N/A	Heat-Flex® 3500	150.0 mils Multiple Pass	152.0 – 156.0 mils (plus stripe coat)

Repaint	First Coat	Dry Film Thickness (Mils)	Stripe Coat	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Moisture Tolerant Epoxy	Dura-Plate 301	4.0 – 6.0 mils	Dura-Plate 301	4.0 – 6.0 mils	Dura-Plate 301	4.0 – 6.0 mils	8.0 – 12.0 mils (plus stripe coat)
Moisture Cured Polyurethane	Corothane I MIO-Aluminum	2.0 – 3.0 mils	Corothane I MIO-Aluminum	2.0 – 3.0 mils (Full Coat Required)	Corothane I HS	2.0 – 3.0 mils	6.0 – 9.0 mils (plus stripe coat)
Surface Tolerant Epoxy	Dura-Plate 235	4.0 – 6.0 mils	Dura-Plate 235	4.0 – 6.0 mils	Dura-Plate 235	4.0 – 6.0 mils	8.0 – 12.0 mils (plus stripe coat)
Polyamide Epoxy	Macropoxy 646	4.0 – 6.0 mils	Macropoxy 646	4.0 – 8.0 mils	Macropoxy 646	4.0 – 6.0 mils	8.0 – 12.0 mils (plus stripe coat)
Insulative Coating	Selection of Primer Based on Existing System *** (See Notes Below)	TBD by Primer Selection	N/A	N/A	Heat-Flex 3500	150.0 mils Multiple Pass	150.0 mils Multiple Pass

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.

*** Generic composition of existing coating must be verified for compatibility through testing or test patches.



Coating Systems for Water Treatment Facilities Booster Pump Stations

Process Description

These structures are located adjacent to water storage tanks and house pumps, motors and piping that increase the delivery capacity of the storage tank to increase head pressure for greater distances of distribution.

Areas of Application

- Steel
- Ductile Iron Pipe

Recommended Applications

- New Construction
- Repaint

See Product Data Sheets for additional information.

*Options for coating systems offer:

- Moisture Tolerant Epoxy for application to condensating pipe
- Moisture Cured Polyurethanes for low temperature cure down to 20°F
- Surface Tolerant Epoxies for marginal surface preparation
- Polyamide Epoxies for economical protection



New Construction	First Coat	Dry Film Thickness (Mils)	Stripe Coat	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Moisture Tolerant Epoxy	Dura-Plate 301	4.0 – 6.0 mils	Dura-Plate 301	4.0 – 6.0 mils	Dura-Plate 301	4.0 – 6.0 mils	8.0 – 12.0 mils (plus stripe coat)
Moisture Cured Polyurethane	Corothane I MIO-Aluminum	2.0 – 3.0 mils	Corothane I MIO-Aluminum	2.0 – 3.0 mils (Full Coat Required)	Corothane I HS	2.0 – 3.0 mils	6.0 – 9.0 mils (plus stripe coat)
Surface Tolerant Epoxy	Dura-Plate 235	4.0 – 6.0 mils	Dura-Plate 235	4.0 – 6.0 mils	Dura-Plate 235	4.0 – 6.0 mils	8.0 – 12.0 mils (plus stripe coat)
Polyamide Epoxy	Macropoxy® 646 FC	4.0 – 6.0 mils	Macropoxy 646	4.0 – 8.0 mils	Macropoxy 646	4.0 – 6.0 mils	8.0 – 12.0 mils (plus stripe coat)
WB Epoxy	Pro Industrial™ Pro-Cryl®	1.8 – 3.6 mils	WB Catalyzed Epoxy	2.5 – 3.0 mils (Full Coat Required)	WB Catalyzed Epoxy	2.5 – 3.0 mils	6.8 – 9.8 mils (plus stripe coat)
Insulative Coating	Heat-Flex 1200/Corothane I GalvaPac 1K/2K Zinc	1200 : 5.0 – 6.0 Zinc : 2.0 – 4.0	N/A	N/A	Heat-Flex 3500	150.0 mils Multiple Pass	152.0 – 156.0 mils

Repaint	First Coat	Dry Film Thickness (Mils)	Stripe Coat	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Moisture Tolerant Epoxy	Dura-Plate 301	4.0 – 6.0 mils	Dura-Plate 301	4.0 – 6.0 mils	Dura-Plate 301	4.0 – 6.0 mils	8.0 – 12.0 mils (plus stripe coat)
Moisture Cured Polyurethane	Corothane I MIO-Aluminum	2.0 – 3.0 mils	Corothane I MIO-Aluminum	2.0 – 3.0 mils (Full Coat Required)	Corothane I HS	2.0 – 3.0 mils	6.0 – 9.0 mils (plus stripe coat)
Surface Tolerant Epoxy	Dura-Plate 235	4.0 – 6.0 mils	Dura-Plate 235	4.0 – 6.0 mils	Dura-Plate 235	4.0 – 6.0 mils	8.0 – 12.0 mils (plus stripe coat)
Polyamide Epoxy	Macropoxy 646	4.0 – 6.0 mils	Macropoxy 646	4.0 – 8.0 mils	Macropoxy 646	4.0 – 6.0 mils	8.0 – 12.0 mils (plus stripe coat)
Insulative Coating	Selection of Primer Based on Existing System***	TBD by Primer Selection	N/A	N/A	Heat-Flex 3500	150.0 mils Multiple Pass	150.0 mils plus primer

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.

*** Generic composition of existing coating must be verified for compatibility through testing or test patches.

Water Storage Systems

[Water Storage Tanks - New Construction](#)

[Water Storage Tanks - Overcoat Systems](#)

[Water Storage Tanks - Concrete](#)

[Telecommunication Equipment](#)

[Booster Pump Stations](#)

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Coating Systems for Welded Steel

Water Storage Tanks – New Construction and Repaint

Description

Sherwin-Williams Protective & Marine Coatings, formulated for potable water and fire suppression tanks, are easily applied to interior and exterior surfaces of new welded steel tanks and appurtenances. The examples below are designed to meet or exceed the requirements of the AWWA D102 & National Fire Protection Association (NFPA) 22 Standards.

Substrate

- Carbon Steel

Recommended Applications

- New Construction
- Repaint



AWWA D102 System (with minimum DFT)	Prime Coat	Minimum Dry Film Thickness (Mils)	Second Coat	Minimum Dry Film Thickness (Mils)	Third Coat**	Minimum Dry Film Thickness (Mils)	Minimum Total Dry Mils
Inside Coating Systems (ICS)							
ICS No. 1	Macropoxy 5500LT/ Sherplate 600	3.0 mils	Macropoxy 5500LT/ Sherplate 600	5.0 mils	N/A	N/A	8.0 mils
ICS No. 2	Macropoxy 5500LT/ Sherplate 600	3.0 mils	Macropoxy 5500LT/ Sherplate 600	4.0 mils	Macropoxy 5500LT/ Sherplate 600	5.0 mils	12.0 mils
ICS No. 3	Corothane I GalvaPac 1K/2K Zinc (optional) at 2.0 mils DFT	2.5 mils	N/A	N/A	SherPlate PW or Dura-Plate UHS	20.0 mils	20.0 mils plus primer DFT
ICS No. 4*	Corothane I GalvaPac 1K/2K Zinc (optional)	2.5 mils	N/A	N/A	Poly-Cote 115	25.0 mils	25.0 mils plus primer DFT
ICS No. 5	Corothane I GalvaPac 1K/2K Zinc	2.5 mils	Macropoxy 5500LT/ Sherplate 600	4.0 mils	Macropoxy 5500LT/ Sherplate 600	4.0 mils	10.5 mils
ICS No. 6	Corothane I GalvaPac 1K/2K Zinc	2.5 mils	N/A	N/A	Macropoxy 5500LT/ Sherplate 600	10.0 mils	12.5 mils

AWWA D102 System (with minimum DFT)	Prime Coat	Minimum Dry Film Thickness (Mils)	Second Coat	Minimum Dry Film Thickness (Mils)	Third Coat**	Minimum Dry Film Thickness (Mils)	Minimum Total Dry Mils
Outside Coating Systems (OCS)							
OCS No. 1**	Alkyd	**	Alkyd	**	Alkyd	**	**
OCS No. 2	Corothane I GalvaPac 1K/2K Zinc	2.0 mils	Corothane I MIO-Aluminum or Corothane I IronOx B	3.0 mils	Corothane I HS Aliphatic	1.5 mils	6.5 mils
OCS No. 3	Corothane I GalvaPac 1K/2K Zinc	2.0 mils	DTM / Sher-Cryl® / SprayLastic® / Pro Industrial Acrylic	2.0 mils	DTM / Sher-Cryl/SprayLastic/ Pro Industrial Acrylic	2.0 mils	6.0 mils
OCS No. 4	Corothane I GalvaPac 1K/2K Zinc	2.0 mils	Acrolon® 218 HS/HS Polyurethane	3.0 mils	Fluorokem® HS Fluorokem® HS-100	2.0 mils	7.0 mils
OCS No. 5	Sherplate 600/Macropoxy 5500LT/Macropoxy 646	2.0 mils	Sherplate 600/Macropoxy 5500LT/Macropoxy 646	2.0 mils	Acrolon Ultra / HS Polyurethane	2.0 mils	6.0 mils
OCS No. 6	Corothane I GalvaPac 1K/2K Zinc	2.0 mils	Sherplate 600/Macropoxy 5500LT/Macropoxy 646	2.0 mils	Acrolon Ultra / HS Polyurethane	2.0 mils	6.0 mils

**Note: Alkyd system primer and topcoats vary by color, pigment and type. Contact your Sherwin-Williams Representative for recommendation.

Other systems, not listed above, may also be used including those containing **Optically Active Pigments (OAP)** and those applied over **NSF Preconstruction Primers (PCP)**. Contact your Sherwin-Williams Representative for recommendation.



Coating Systems for Welded Steel Water Storage Tanks – Overcoat Systems

Description

Sherwin-Williams Protective & Marine Coatings, formulated for potable water tanks, are easily applied to interior and exterior surfaces of existing steel tanks and appurtenances.

Substrate

- Carbon Steel
- Previously Painted Surfaces

Recommended Applications

- Overcoating/Repainting



Substrate	Spot Prime	Dry Film Thickness (Mils)	Tie Coat	Dry Film Thickness (Mils)	Finish Coats	Dry Film Thickness (Mils)	Total Dry Mils
Outside Coating Systems							
Epoxy Spot Prime/ Penetrating Primer/Acrylic Top-Coat (Penetrating Primer)	Macropoxy 646/Macropoxy 5500LT/Sherplate 600	As Needed	Macropoxy 920/5000	1.0 – 1.5 mils	DTM/SherCryl/SprayLastic/ Pro Industrial Acrylic	2.0 – 4.0 mils/Coat* (See Bottom of Section for Notes)	3.5 – 9.5 mils (Plus Spot Prime)
Epoxy Spot Prime/ Penetrating Primer/2K Urethane Top-Coat (Epoxy Spot Primer)	Macropoxy 646/Macropoxy 5500LT/Sherplate 600	As Needed	Macropoxy 920/5000	1.0 – 1.5 mils	Acrolon Ultra/HS/HS250 Polyurethane	2.0 – 4.0 mils/Coat* (See Bottom of Section for Notes)	3.0 – 9.5 mils (Plus Spot Prime)
Epoxy Spot Prime/ Penetrating Primer/ Polysiloxane Top-coat	Macropoxy 646/Macropoxy 5500LT/Sherplate 600	As Needed	Macropoxy 920/5000	1.0 – 1.5 mils	Sher-Loxane® 800	4.0 – 6.0 mils/Coat*	5.0 – 13.5 mils (Plus Spot Prime)
Epoxy Spot Prime/ Penetrating Primer/Urethane/ Fluoropolymer Top-Coat	Macropoxy 646/Macropoxy 5500LT/Sherplate 600 Spot Prime with Full Coat Macropoxy 920/5000	Spot Prime: As Needed Full Coat : 1.0 – 1.5 mils	Acrolon Ultra/HS/HS250 Polyurethane	2.0 – 4.0 mils	Fluorokem HS100	2.0 – 3.0 mils/Coat*	5.0 – 11.5 mils (Plus Spot Prime)
Epoxy Spot Prime/ Penetrating Primer/Epoxy/ Urethane (Penetrating Primer)	Macropoxy 646/Macropoxy 5500LT/Sherplate 600 Spot Prime with Full Coat Macropoxy 920/5000	Spot Prime: As Needed Full Coat : 1.0 – 1.5 mils	Macropoxy 646/Macropoxy 5500LT/Sherplate 600	2.0 – 6.0 mils	Acrolon Ultra/ HS Polyurethane	2.0 – 3.0 mils/Coat*	5.0 – 11.5 mils
Epoxy Spot Prime/Epoxy/ Urethane (Epoxy Spot Primer)	Macropoxy 646/ Sherplate 600	As Needed	Macropoxy 646/ Sherplate 600	2.0 – 6.0 mils	Acrolon Ultra/ HS Polyurethane	2.0 – 4.0 mils/Coat*	4.0 – 10.0 mils (Plus Spot Prime)
Carbon Steel (Epoxy/Urethane)	Macropoxy 646	As Needed			Acrolon Ultra/ HS Polyurethane	2.0 – 4.0 mils/Coat*	2.0 – 4.0 mils (Plus Spot Prime)
Carbon Steel (Epoxy/Urethane/ Fluoropolymer Urethane)	Macropoxy 646/ Sherplate 600	As Needed	Acrolon 218 HS / HS Polyurethane	2.0 – 4.0 mils	Fluorokem HS100	2.0 – 4.0 mils	4.0 – 8.0 mils (Plus Spot Prime)
Carbon Steel MCU In-Service	Corothane I GalvaPac/ MIO-Aluminum/IronOx B (Spot Prime)	As Needed	Corothane I HS	3.0 – 4.0 mils	Corothane I HS	3.0 – 4.0 mils	6.0 – 8.0 mils (Plus Spot Prime)

* Second coat optional if desired for hide or aesthetic purposes
Other systems, not listed above, may also be used. Contact your Sherwin-Williams Representative for recommendation.



Coating Systems for Concrete Tanks

Water Storage Tanks – Concrete

Description

Concrete tanks are constructed for water storage, fire suppression or process water requirements and may be built to conform to AWWA D110 or AWWA D115 Standards. After decades of service, they may require repair or rehabilitation. Sherwin-Williams coating systems are easily applied to interior and exterior surfaces of new and/or rehabilitated concrete tanks.

Substrate

- Concrete/Shotcrete/Gunite

Recommended Uses

- New Construction
- Repair/Rehabilitation

Additional Information

- Some systems may be applied in one coat. See Product Data Sheets.



Interior Coating System*	Primer/Filler	Dry Film Thickness (Mils)	Second Coat	Dry Film Thickness (Mils)	Third Coat	Dry Film Thickness (Mils)	Total Dry Mils
High Build Epoxy	Dura-Plate UHS Primer	8.0 – 10.0 mils	N/A	N/A	Dura-Plate UHS NSF	10.0 – 14.0 mils	18.0 – 24.0 mils
Glass Flake Reinforced Epoxy	***Sherplate 600/Duraplate UHS Primer	3.0 – 4.0 mils	N/A	N/A	Dura-Plate 6000	60.0 – 125.0 mils	63.0 – 129.0 mils
Elastomeric Urethane (Sustainable Content)	***Sherplate 600/Duraplate UHS Primer	3.0 – 4.0 mils	N/A	N/A	Poly-Cote 115	60.0 – 250.0 mils	63.0 – 254.0 mils

Exterior Coating System	Prime Coat	Dry Film Thickness (Mils)	Second Coat	Dry Film Thickness (Mils)	Third Coat	Dry Film Thickness (Mils)	Total Dry Mils
Acrylic (Water Resistant)	N/A	N/A	Loxon® Masonry Coating	3.0 – 3.7 mils	Loxon Masonry Coating	3.0 – 3.7 mils	6.0 – 7.4 mils
Textured Acrylic (Water Resistant)	N/A	N/A	UltraCrete	50.0 – 80.0 Sq Ft/Gal	UltraCrete	50.0 – 80.0 Sq Ft/Gal	-14.0 mils
Acrylic (Water Proof)	N/A	N/A	Loxon® XP	6.4 – 8.3 mils	Loxon XP	6.4 – 8.3 mils	12.8 – 16.6 mils
Flexible Acrylic (Waterproof)	Loxon® Masonry Primer	3.0 – 3.2 mils	ConFlex® SherLastic®	4.0 – 6.0 mils	ConFlex SherLastic	4.0 – 6.0 mils	11.0 – 15.2 mils
Smooth Elastomeric (Waterproof)	Loxon Masonry Primer	3.0 – 3.2 mils	ConFlex SherLastic	4.0 – 6.0 mils	ConFlex SherLastic	4.0 – 6.0 mils	11.0 – 15.2 mils
Textured Elastomeric (Waterproof)	Loxon Masonry Primer	3.0 – 3.2 mils	ConFlex Textured	6.0 – 7.5 mils	ConFlex Textured	6.0 – 7.5 mils	15.0 – 18.2 mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.

*** Topcoat must be applied within 48 hours.



Coating Systems for Telecommunication Equipment Mounted on Water Storage Tanks

Process Description

As telecommunications continue to grow throughout the world, the network providers have identified a means of expanding their coverage areas at a faster rate. They are renting space from municipalities to install their equipment on existing elevated structures. Tank repaints and maintenance can create the need for repainting or maintenance to occur of the mounted telecommunication equipment.

Areas of Application

- Galvanized Steel – Brackets and Frames
- Plastic and Fiberglass – Antennae
- Steel – Misc. Carbon Steel

Recommended Applications

- New Installations
- Repaint

See Product Data Sheets for additional information.

* Options for coating systems on the following substrates:

- Galvanized
- Plastic and Fiberglass
- Carbon Steel



New Construction & Repaint / Exterior	Primer	Dry Film Thickness (Mils)	Intermediate Coat	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Galvanized	Macropoxy 646	3.0 – 5.0 mils	N/A	N/A	Hi-Solids Polyurethane/ Acrolon Ultra	2.0 – 3.0 mils	5.0 – 8.0 mils
Plastic and Fiberglass	Pro-Cryl® Universal Primer	2.0 – 4.0 mils	SherCryl HPA	2.5 – 4.0 mils	Sher-Cryl HPA	2.5 – 4.0 mils	7.0 – 12.0 mils
Carbon Steel	Corothane I GalvaPac Zinc 1K/2K	2.5 – 4.0 mils	Macropoxy 646	3.0 – 5.0 mils	Hi-Solids Polyurethane/ Acrolon Ultra	2.0 – 3.0 mils	7.5 – 12.0 mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.



Coating Systems for Water Treatment Facilities Booster Pump Stations

Process Description

These structures are located adjacent to water storage tanks and house pumps, motors and piping that increase the delivery capacity of the storage tank to increase head pressure for greater distances of distribution.

Areas of Application

- Steel
- Ductile Iron Pipe

Recommended Applications

- New Construction
- Repaint

See Product Data Sheets for additional information.

*Options for coating systems offer:

- Moisture Tolerant Epoxy for application to condensating pipe
- Moisture Cured Polyurethanes for low temperature cure down to 20°F
- Surface Tolerant Epoxies for marginal surface preparation
- Polyamide Epoxies for economical protection



New Construction	First Coat	Dry Film Thickness (Mils)	Stripe Coat	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Moisture Tolerant Epoxy	Dura-Plate 301	4.0 – 6.0 mils	Dura-Plate 301	4.0 – 6.0 mils	Dura-Plate 301	4.0 – 6.0 mils	8.0 – 12.0 mils (plus stripe coat)
Moisture Cured Polyurethane	Corothane I MIO-Aluminum	2.0 – 3.0 mils	Corothane I MIO-Aluminum	2.0 – 3.0 mils (Full Coat Required)	Corothane I HS	2.0 – 3.0 mils	6.0 – 9.0 mils (plus stripe coat)
Surface Tolerant Epoxy	Dura-Plate 235	4.0 – 6.0 mils	Dura-Plate 235	4.0 – 6.0 mils	Dura-Plate 235	4.0 – 6.0 mils	8.0 – 12.0 mils (plus stripe coat)
Polyamide Epoxy	Macropoxy® 646 FC	4.0 – 6.0 mils	Macropoxy 646	4.0 – 8.0 mils	Macropoxy 646	4.0 – 6.0 mils	8.0 – 12.0 mils (plus stripe coat)
WB Epoxy	Pro Industrial™ Pro-Cryl®	1.8 – 3.6 mils	WB Catalyzed Epoxy	2.5 – 3.0 mils (Full Coat Required)	WB Catalyzed Epoxy	2.5 – 3.0 mils	6.8 – 9.8 mils (plus stripe coat)
Insulative Coating	Heat-Flex 1200/Corothane I GalvaPac Zinc 1K/2K	1200 : 5.0 – 6.0 Zinc : 2.0 – 4.0	N/A	N/A	Heat-Flex 3500	150.0 mils Multiple Pass	152.0 – 156.0 mils

Repaint	First Coat	Dry Film Thickness (Mils)	Stripe Coat	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Moisture Tolerant Epoxy	Dura-Plate 301	4.0 – 6.0 mils	Dura-Plate 301	4.0 – 6.0 mils	Dura-Plate 301	4.0 – 6.0 mils	8.0 – 12.0 mils (plus stripe coat)
Moisture Cured Polyurethane	Corothane I MIO-Aluminum	2.0 – 3.0 mils	Corothane I MIO-Aluminum	2.0 – 3.0 mils (Full Coat Required)	Corothane I HS	2.0 – 3.0 mils	6.0 – 9.0 mils (plus stripe coat)
Surface Tolerant Epoxy	Dura-Plate 235	4.0 – 6.0 mils	Dura-Plate 235	4.0 – 6.0 mils	Dura-Plate 235	4.0 – 6.0 mils	8.0 – 12.0 mils (plus stripe coat)
Polyamide Epoxy	Macropoxy 646	4.0 – 6.0 mils	Macropoxy 646	4.0 – 8.0 mils	Macropoxy 646	4.0 – 6.0 mils	8.0 – 12.0 mils (plus stripe coat)
Insulative Coating	Selection of Primer Based on Existing System***	TBD by Primer Selection	N/A	N/A	Heat-Flex 3500	150.0 mils Multiple Pass	150.0 mils plus primer

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.

*** Generic composition of existing coating must be verified for compatibility through testing or test patches.

Water Conveyance Systems

Epoxy Coatings and Linings for Water
Conveyance Pipelines (AWWA C210)

Exterior Above Ground Water Pipelines
and Fittings (AWWA C218)

Polyurethane Coatings and Linings
for Water Conveyance Pipelines (AWWA C222)

Epoxy & Polyurethane Coatings and Linings for
Ductile, Cast Pipes & Fittings

Specialty Fusion-Bonded Epoxy Powder
Coatings and Linings for Steel Pipelines,
and Steel, Ductile Iron and Cast/Gray Iron
Fittings, Valves and Hydrants

Fire Hydrants

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Coating Systems for Transmission/Distribution Systems

Epoxy Coatings and Linings for Water Conveyance Pipelines

Process Description

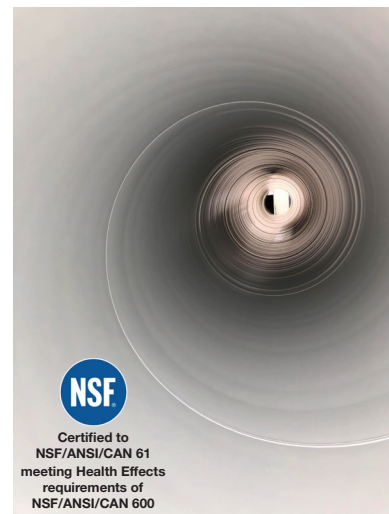
Water conveyance pipelines vary in diameter based on the needs of the municipal water system. The AWWA C210 standard addresses the internal and external coatings and linings of carbon steel pipe with the use of an NSF Standard 61 approved epoxy coating system. Epoxy resins are well known for their use in immersion service and their easy-to-apply characteristics. Opti-Check™ Optically Active Pigments (OAP) are available for some listed products. Opti-Check allows for non-contact visual holiday detection.

Areas of Application

- Steel – Carbon

Recommended Applications

- New Construction
 - Steel
- Rehabilitation
 - Steel



See Product Data Sheets for additional information.

* Options for coating systems offered meet the requirements of AWWA C210:
Rapid set, high build, ultra-high 100% solids epoxy for interior and exterior coating applications where improved throughput in the shop is desired as well as extended service life.

High build, ultra-high 100% solids epoxy for interior and exterior coating applications where improved throughput in the shop is desired as well as extended service life. Conventional epoxy for interior lining and exterior coating applications

New Construction Steel or Ductile/Gray Iron	Minimum Required Surface Prep	Minimum Required Surface Profile (Mils)	Primer	Minimum Dry Film Thickness (Mils)**	Topcoat	Minimum Dry Film Thickness (Mils)	Minimum Total Dry Mils, Primer + Topcoat
Fast Set, High Build, 100% Solids Epoxy (Interior & Exterior Surfaces Plural Applied)	SSPC-SP10/ NACE No.2	2.0 mils	Not Required	N/A	SherPlate PW***	16.0 mils**	16.0 mils
High Build, 98% Solids Epoxy (Interior & Exterior Surfaces Single Leg, Plural or Brush & Roll Applied)	SSPC-SP10/ NACE No. 2	2.0 mils	Not Required	N/A	Dura-Plate UHS***	16.0 mils**	16.0 mils
High Build, 100% Solids Epoxy (Interior & Exterior Surfaces Single Leg, Plural Applied *Also Suitable for Concrete Surfaces)	SSPC-SP10 NACE No. 2	2.0 mils	Not Required	N/A	Dura-Plate UHS***	20.0 mils	20.0 mils
Next-Generation, High Solids Epoxy (Interior & Exterior Surfaces, Single Leg or Brush/ Roll Applied)	SSPC-SP10 NACE No. 2	3.0 mils	Not Required (Direct to Metal)	N/A	SherPlate 600	3.0 mils	16.0 mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Maximum Dry Film Thickness (DFT) will vary according to product selected. Allowable pipe diameters and maximum dry film must be confirmed with current NSF/ANSI/CAN 61 per NSF or UL Listings*.

*** Product is available with Optically Active Pigments for rapid holiday detection.



Coating Systems for Transmission/Distribution Systems Exterior Aboveground Water Pipelines & Fittings

Process Description

Exterior aboveground water pipelines and fittings of the municipal water system. The C218 standard addresses specific coating systems to provide corrosion protection and weatherability on aboveground water pipelines and fittings. The standard coating systems offer multiple options for life cycle and economics for the prevention of corrosion of exterior aboveground water pipelines and fittings.

Areas of Application

- Steel – Carbon
- Suitable for Ductile/Gray Iron

Recommended Applications

- New Construction
 - Steel, Ductile & Gray Iron
- Repaint or Rehabilitation
 - Steel, Ductile & Gray Iron

See Product Data Sheets for additional information.

* Options for coating systems offered meet the requirements of AWWA C218:

Coating System No. 1 – Three coat or optional four coat alkyd system

1-A – Aluminum Finish

1-B – Metallic Finish (Not Available)

1-C – Alkyd Finish

1-D – Silicone Alkyd Finish

Coating System No. 2 – RIP Epoxy Primer/Epoxy/Polyurethane

Coating System No. 3 – IOZ or OZ/Epoxy/Polyurethane

Coating System No. 4 – RIP Epoxy Primer/Coal Tar Epoxy/Optional Coal Tar Epoxy

Coating System No. 5 – WB RIP Epoxy/WB Epoxy/WB Epoxy

Coating System No. 6 – WB Acrylic RIP/WB Acrylic/WB Acrylic



New Construction Steel	Primer	Minimum Dry Film Thickness (Mils)**	Intermediate Coat	Minimum Dry Film Thickness (Mils)**	Topcoat	Minimum Dry Film Thickness (Mils)	Minimum Total Dry Mils**
Coating System No. 1-A	Kem Bond® HS	2.0 mils	Silver-Brite® Aluminum	1.0 mils	Silver-Brite Aluminum	1.0 mils	4.0 mils
Coating System No. 1-B	Kem Bond HS	2.0 mils	N/A	N/A	N/A	N/A	4.0 mils
Coating System No. 1-C	Kem Bond HS	2.0 mils	Industrial Enamel HS	1.5 mils	Industrial Enamel HS	1.5 mils	5.0 mils
Coating System No. 1-D	Kem Bond HS	2.0 mils	Steel Master® 9500	1.5 mils	Steel Master 9500	1.5 mils	16.0 mils
Coating System No. 2	Recoat Epoxy Primer	2.0 mils	Macropoxy 646	4.0 mils	Acrolon Ultra	1.5 mils	7.5 mils
Coating System No. 3	Zinc Clad® II Plus or Corothane I GalvaPac Zinc 1K/2K	2.5 mils	Macropoxy 646	3.0 mils	Acrolon Ultra	1.5 mils	7.0 mils
Coating System No. 4	Recoat Epoxy Primer	2.0 mils	TarGuard® Coal Tar Epoxy	6.0 mils	TarGuard Coal Tar Epoxy	6.0 mils (Optional 1 coat @ 12.0 mils DFT)	14.0 mils
Coating System No. 5	WB Tile-Clad® Primer	2.0 mils	WB Tile-Clad Epoxy	3.0 mils	WB Tile-Clad Epoxy	3.0 mils	8.0 mils
Coating System No. 6	Pro-Cryl® Primer	2.0 mils	Sher-Cryl HPA	3.0 mils	Sher-Cryl HPA	3.0 mils	8.0 mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Maximum Dry Film Thickness (DFT) will vary according to product selected.



Coating Systems for Transmission/Distribution Systems

Polyurethane Coatings and Linings for Water Conveyance Pipelines

Process Description

Water conveyance pipelines vary in diameter based on the needs of the municipal water system. The C222 standard addresses the internal and external coatings and linings of carbon steel pipe with the use of an NSF Standard 61-approved aromatic polyurethane coating system. These polyurethane resins offer improved resistance to impact from the backfill process and extended life cycle performance due to their overall physical toughness.

Areas of Application

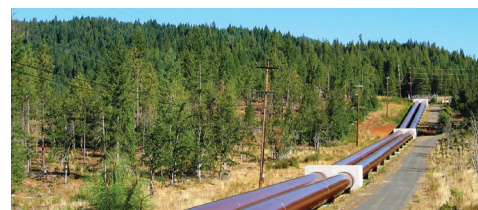
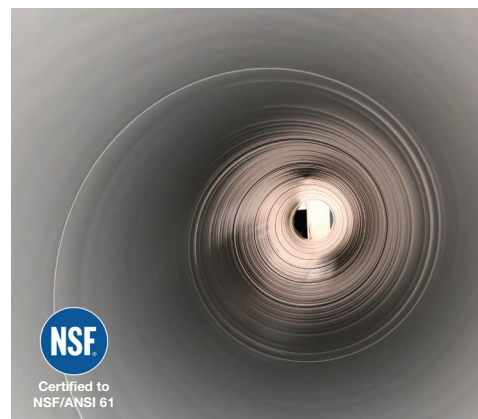
- Steel – Carbon
- Suitable for Ductile/Gray Iron
- Suitable for Concrete

Recommended Applications

- New Construction
 - Steel/Ductile & Gray Iron
 - Concrete
- Rehabilitation
 - Steel/Ductile & Gray Iron
 - Concrete

See Product Data Sheets for additional information.

* Options for coating systems offered meet the requirements of AWWA C222:
 Fast Set Polyurethane for exterior coating where shop throughput is required.
 Rapid Set Polyurethane for interior lining with a smooth finish is required.
 Slow Set Polyurethane for intricate parts such as elbows and fittings where greater maneuverability is desired with the spray gun.
 Field Repair Kit for touching up field joints and making repairs to damaged areas during transport and construction.



New Construction Steel	Minimum Required Surface Prep	Minimum Required Surface Profile (Mils)	Primer**	Minimum Dry Film Thickness (Mils)***	Topcoat	Minimum Dry Film Thickness (Mils)
Fast Set Polyurethane (Interior Surfaces)	SSPC-SP10/ NACE No.2	3.0 mils	Not Required	N/A	PipeClad 8000 (Fast Set)	20.0 mils** NSF/ANSI/CAN 61 Compliant
Fast Set Polyurethane (Exterior Surfaces)	SSPC-SP10/ NACE No.2	3.0 mils	Not Required	N/A	PipeClad 8000 (Fast Set)	25.0 mils**
Field Repair Kit Polyurethane (Interior and Exterior) Suitable for Concrete Pipe	SSPC-SP10/ NACE No. 2	3.0 mils	Not Required	N/A	Poly-Cote 115/Poly-Cote 115 FR	20.0 – 25.0 mils**

** Additional information on concrete primers and systems available, contact your local Sherwin-Williams Representative.

*** Maximum Dry Film Thickness (DFT) will vary according to product selected. Allowable pipe diameters and maximum dry film must be confirmed with current NSF/ANSI/CAN 61 per NSF or UL Listings".



Coating Systems for Transmission/Distribution Systems Epoxy & Polyurethane Coatings and Linings for Ductile/ Cast Pipes & Fittings

Description

These coating products and systems offer higher overall performance in terms of corrosion protection, service life and application, under the varying service conditions described.

Suitable Substrates

- Ductile Iron
- Cast Iron

Recommended Applications

- Shop Applied
- Field Applied

See Product Data Sheets for additional information.



System # - Service Environment	Minimum Required Surface Prep	Base Coat	Dry Film Thickness (Mils)	Top Coat	Dry Film Thickness (Mils)**
#1: Pipe OD - Exterior Atmospheric Exposure	NAPF 500-03-04	Dura-Plate 6000	20.0 – 25.0 mils	Acrolon Ultra	2.5 – 4.0 mils
#2: Pipe OD - Below Grade or Immersion	NAPF 500-03-04	Dura-Plate 6000	25.0 – 30.0 mils	Not Required	Not Required
#3: Pipe ID - Potable Water or Sewer Immersion	NAPF 500-03-04	Dura-Plate 6000	30.0 – 50.0 mils	Not Required	Not Required
#4: Pipe OD and/ID - High Throughout Below Grade/ Immersion/Potable Water/Sewer	NAPF 500-03-04	PipeClad 8000	20.0 – 50.0 mils	Not Required	Not Required
#5: Pipe OD - Non UV Exposure	NAPF 500-03-04	Macropoxy 646	6.0 – 10.0 mils	Macropoxy 646 (Color Coded)	6.0 – 10.0 mils
#6: Pipe OD Shop Coat 1 - Zinc with Pipe OD Shop Coat 2 - Epoxy	NAPF 500-03-04	Zinc Clad® 4100 Macropoxy 5500	3.0 – 5.0 mils 3.0 – 5.0 mils	Not Required Not Required	Not Required Not Required

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Maximum Dry Film Thickness (DFT) will vary according to product selected. Allowable pipe diameters and maximum dry film must be confirmed with current NSF/ANSI/CAN 61 per NSF or UL Listings.



Coating Systems for Transmission/Distribution Systems

Specialty Fusion-Bonded Epoxy Powder Coatings and Linings for Steel Pipelines, and Steel, Ductile Iron and Cast/Gray Iron Fittings, Valves and Hydrants

Process Description

Specialty epoxy powder solutions for the water industry, for both municipal and industrial applications. Solutions meeting the requirements of several AWWA standards including C213 (Steel Water Pipelines/Fittings), C116 (Ductile-Iron/Gray Iron Fittings) and C550 (Metallic Valves/Hydrants) and NSF/ANSI/CAN 61. FBE/ARO solutions offer the maximum physical and corrosion protection possible for the most demanding horizontal directional drill (HDD) and submerged pipeline applications.



Areas of Application

- Steel
- Ductile Iron/Gray Iron

Recommended Applications

- New Construction
 - Steel Pipelines
 - Fittings (Steel, Ductile, Cast/Metallic)
 - Valves (Steel, Ductile, Cast/Metallic)
 - Hydrants (Steel, Cast/Metallic)
 - Steel Tanks

See Product Data Sheets for additional information.

New Construction Steel	Description	Substrate(s)	Suitable Component(s)	NSF/ANSI/CAN 61	AWWA Approvals	Recommended DFT	MAX DFT - PW
PipeClad 2000	Exterior Fusion Bond Epoxy	Steel	Pipe	No	C213	16.0 – 20.0 mils	N/A
PipeClad 2040 Flex ARO	Epoxy ARO (Abrasion Resistant Overcoat)	Steel	Pipe (Powder-on-powder system over FBE for HDD Applications)	No	N/A	30.0 – 40.0 mils	N/A
PipeClad 704G	Exterior Coating/Interior Lining Powder Epoxy	Steel	Pipe	Yes	C213	10.0 – 20.0 mils	60.0 mils
PipeClad IF1947T*	Exterior Coating/Interior Lining Powder Epoxy	Steel/Ductile/Cast	Fittings, Valve, Pipe, Tank	Yes	C116, C213, C550	8.0 – 20.0 mils	20.0 mils
IF1947M*	Exterior Coating/Interior Lining Powder Epoxy	Steel/Ductile/Cast	Fittings, Valve, Pipe, Tank	Yes	C116, C550	8.0 – 20.0 mils	20.0 mils
IF1947MP*	Exterior Coating/Interior Lining Powder Epoxy	Steel/Ductile/Cast	Fittings, Valve, Pipe, Tank	Yes	C116, C551	8.0 – 20.0 mils	20.0 mils

*Standard Color is Red Oxide. Additional colored powder epoxies available in Blue, RAL 5003 Blue, Black, Red, Yellow, Safety Yellow & Graphite. Contact your Sherwin-Williams representative for additional information.



Coating Systems for Transmission/Distribution Systems Fire Hydrant Repaints

Process Description

Fire hydrants located in communities are a means of accessing transported water to aid in extinguishing fires and providing a service to prevent the loss of lives and property. The vibrancy of these structures makes them more easily located by those professionals that need access to them and allows the citizens to recognize their presence to prevent them blocking access with motor vehicles or other obstructions, therefore reducing the time required to provide needed aid and decreasing the chances of a fatal incident.

Areas of Application

- Cast Iron

Recommended Applications

- Repaint or Rehabilitation
 - Steel



See Product Data Sheets for additional information.

* Options for coating systems offered:

Complete Rehabilitation – Complete removal and repaint system.

Complete Overcoat – The existing film is intact and still providing corrosion protection.

Surface Tolerant Overcoat – The existing film is showing signs of corrosion but the remaining film is still tightly adherent.

New Construction Steel	Primer	Minimum Dry Film Thickness (Mils)**	Intermediate Coat	Minimum Dry Film Thickness (Mils)**	Topcoat	Minimum Dry Film Thickness (Mils)	Minimum Total Dry Mils**
Complete Rehabilitation	Corothane I GalvaPac IK/2K Zinc	3.0 mils	Macropoxy 646	4.0 mils	HS Polyurethane/ Acrolon Ultra/WB Acrolon 100	2.5 mils	9.5 mils
Complete Overcoat	Pro-Cryl Primer	2.5 mils	N/A	N/A	Industrial Urethane Alkyd/ SherCryl/WB Acrolon 100	2.5 mils	5.0 mils
Surface Tolerant Overcoat	Macropoxy 646	5.0 mils	N/A	N/A	HS Polyurethane/ Acrolon Ultra/WB Acrolon 100	2.5 mils	7.5 mils
High Performance Complete Overcoat	Macropoxy 646	5.0 – 10.0 mils	N/A	N/A	Sher-Loxane 800	4.0 – 6.0 mils	9.0 – 16.0 mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Maximum Dry Film Thickness (DFT) will vary according to product selected.

Sewer Collection Systems

Pump Stations

Force Main Sewer Manholes

Gravity Sewer Manholes

Sewer Trunk Lines

Junction/Splitter Boxes

Vacuum System – Air Release Vaults

Inflow and Infiltration Elimination Products

Click the desired category to go
directly to the related content

A note about H₂S environments:

Mild environments can use a stand-alone liner of Microsilica Mortar (<25PPM H₂S)

Moderate environments can use a stand-alone liner of Calcium Aluminate (<50PPM H₂S)

Severe environments will require a cementitious repair mortar and a protective coating (>50PPM H₂S)



Coating Systems for Sewer Collection Systems Pump Stations

Process Description

Sewer pump stations are placed at regular intervals to limit the depth of manholes. The sewage is gravity-fed into the structures and at an established storage level, determined by a float, the pumps transfer the sewage into the beginning of the new sewer line. These structures can be small structures capable of minimal input or large regional structures capable of handling millions of gallons per day. These are very corrosive environments due to turbulent flows and detention times.

Areas of Application

- Concrete – Cast-In-Place Concrete
- Brick Substrates

Recommended Applications

- New Construction
 - Concrete
- Rehabilitation/Repaint
 - Concrete
 - Brick

See Product Data Sheets for additional information.

*Options for coating systems offer:

Glass Flake Filled Epoxy for low permeability at lower film thickness

High Build Reinforced Epoxy

High Build Reinforced Epoxy Mortar Lining

High Build, High Performance Amine Cured Epoxy for semi-structural properties and filling minor surface imperfections

High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service



New Construction Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate Z300	As Required	Sher-Glass® FF	15.0 – 20.0 mils	Sher-Glass FF	15.0 – 20.0 mils	30.0 – 40.0 mils
High Build Reinforced Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate Z300	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Epoxy Mortar	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate Z300 or Use DP6000 Mortar Direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate Z300	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate Z300	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils

Rehabilitation Concrete/Brick	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	Dura-Plate Z300 Resurfacer or Cementitious Repair Mortar	As Required	Sher-Glass FF	15.0 – 20.0 mils	Sher-Glass FF	15.0 – 20.0 mils	30.0 – 40.0 mils
High Build Reinforced Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate Z300	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Epoxy Mortar	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate Z300 or Use DP6000 Mortar Direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate Z300	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate Z300	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.

*** Cementitious Repair Mortars are distributed by A.W. Cook Cements.



Coating Systems for Sewer Collection Systems

Force Main Sewer Manholes

Process Description

These are the manholes into which the sewer lift station discharges when the pumps are activated by the float, to begin a new gravity sewer line. These are very corrosive environments due to turbulent flows and microbial-induced corrosion.

Areas of Application

- Concrete – Cast-In-Place Concrete
- Brick Substrates

Recommended Applications

- New Construction
 - Concrete
- Rehabilitation/Repaint
 - Concrete
 - Brick

See Product Data Sheets for additional information.

*Options for coating systems offer:

Glass Flake Filled Epoxy for low permeability at lower film thickness

High Build Reinforced Epoxy

High Build Reinforced Epoxy Mortar Lining

High Build, High Performance Amine Cured Epoxy for semi-structural properties and filling minor surface imperfections

High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service



New Construction Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate Z300	As Required	Sher-Glass FF	15.0 – 20.0 mils	Sher-Glass FF	15.0 – 20.0 mils	30.0 – 40.0 mils
High Build Reinforced Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate Z300	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Epoxy Mortar	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate Z300 or Use DP6000 Mortar Direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate Z300	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate Z300	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils

Rehabilitation Concrete/Brick	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate Z300	As Required	Sher-Glass FF	15.0 – 20.0 mils	Sher-Glass FF	15.0 – 20.0 mils	30.0 – 40.0 mils
High Build Amine Cured Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate Z300	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Epoxy Mortar	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate Z300 or Use DP6000 Mortar Direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate Z300	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate Z300	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.

*** Cementitious Repair Mortars are distributed by A.W. Cook Cements.



Coating Systems for Sewer Collection Systems

Gravity Sewer Manholes

Process Description

These are designed to be access points for maintenance to the main line sewer. These are points at which the sewer can be accessed to clean the line, remove blockages, treat pipe leaks and kill root intrusion. Manholes are a major contributor to water infiltration and are subject to very corrosive environments. Coatings can help achieve the desired 50-year design life of these assets. Should be used whenever the H₂S level is above 50 ppm.



Areas of Application

- Concrete – Cast-In-Place Concrete
- Brick Substrates

Recommended Applications

- New Construction
 - Concrete
- Rehabilitation/Repaint
 - Concrete
 - Brick

See Product Data Sheets for additional information.

*Options for coating systems offer:

Glass Flake Filled Epoxy for low permeability at lower film thickness

High Build Reinforced Epoxy

High Build Reinforced Epoxy Mortar Lining

High Build, High Performance Amine Cured Epoxy for semi-structural properties and filling minor surface imperfections

High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service

Stand Alone Mortar Linings

New Construction Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Sher-Glass FF	15.0 – 20.0 mils	Sher-Glass FF	15.0 – 20.0 mils	30.0 – 40.0 mils
High Build Reinforced Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Epoxy Mortar	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300 or DP6000 Mortar Direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils
Rehabilitation Concrete/Brick	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Sher-Glass FF	15.0 – 20.0 mils	Sher-Glass FF	15.0 – 20.0 mils	30.0 – 40.0 mils
High Build Reinforced Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300 or Use DP6000 Mortar Direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	440.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 125.0+ mils	80.0 – 125.0+ mils
High Build Aromatic Polyurethane Elastomer	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 250.0 mils	80.0 – 250.0 mils
Stand Alone Mortar Lining <25 PPM H₂S Concentration	N/A	N/A	N/A	N/A	A.W. Cook Cemtec Silatec MSM	5"-2" Single Lift Up To 4" (2 Lifts)	5" – 4.0"
Stand Alone Mortar Lining 25-50 PPM H₂S Concentration	N/A	N/A	N/A	N/A	A.W. Cook Cemtec Silatec CAM	5"-2" Single Lift Up To 4" (2 Lifts)	5" – 4.0"

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.

*** Cementitious Repair Mortars are distributed by A.W. Cook Cements.



Coating Systems for Sewer Collection Systems

Sewer Trunk Lines

Process Description

Sewer trunk lines are large diameter pipe or box culverts used to transport the sewage into the treatment plants. Some municipalities utilize these lines as temporary storage during periods of high flow demand. They range in sizes from 60 inches to 22 feet in diameter. These can be very aggressive environments due to turbulent flows, stagnant flows, and detention times.

Areas of Application

- Concrete – Cast-In-Place Concrete

Recommended Applications

- New Construction
 - Concrete
- Rehabilitation/Repaint
 - Concrete



See Product Data Sheets for additional information.

*Options for coating systems offer:

Glass Flake Filled Epoxy for low permeability at lower film thickness

High Build Reinforced Epoxy

High Build Reinforced Epoxy Mortar Lining

High Build, High Performance Amine Cured Epoxy for semi-structural properties and filling minor surface imperfections

High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service

New Construction Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Sher-Glass FF	15.0 – 20.0 mils	Sher-Glass FF	15.0 – 20.0 mils	30.0 – 40.0 mils
High Build Reinforced Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Epoxy Mortar	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300 or DP6000 Mortar Direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build, High Performance Amine Cured Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils

Rehabilitation Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Sher-Glass FF	15.0 – 20.0 mils	Sher-Glass FF	15.0 – 20.0 mils	30.0 – 40.0 mils
High Build Reinforced Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Epoxy Mortar	A.W. Cook Silatec MSM/Cemtec Thin Patch/Dura-Plate 2300 or DP6000 mortar direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build, High Performance Amine Cured Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.

*** Cementitious Repair Mortars are distributed by A.W. Cook Cements.



Coating Systems for Sewer Collection Systems Junction/Splitter Boxes

Process Description

Junction/splitter boxes are points at which two or more sewer lines converge or one line is split into two or more lines. Junction/splitter boxes are a major contributor to water infiltration and are subject to very corrosive environments.

Areas of Application

- Concrete – Cast-In-Place Concrete

Recommended Applications

- New Construction
 - Concrete
- Rehabilitation/Repaint
 - Concrete
 - Brick



See Product Data Sheets for additional information.

*Options for coating systems offer:

Glass Flake Filled Epoxy for low permeability at lower film thickness

High Build Reinforced Epoxy

High Build Reinforced Epoxy Mortar Lining

High Build, High Performance Amine Cured Epoxy for semi-structural properties and filling minor surface imperfections

High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service

New Construction Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Sher-Glass FF	15.0 – 20.0 mils	Sher-Glass FF	15.0 – 20.0 mils	30.0 – 40.0 mils
High Build Reinforced Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Epoxy Mortar	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300 or DP6000 Mortar Direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils

Rehabilitation Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	A.W. Cook MSM/Thin Patch or Dura-Plate 2300	As Required	Sher-Glass FF	15.0 – 20.0 mils	Sher-Glass FF	15.0 – 20.0 mils	30.0 – 40.0 mils
High Build Reinforced Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Epoxy Mortar	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300 or DP6000 Mortar Direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.

*** Cementitious Repair Mortars are distributed by A.W. Cook Cements.



Coating Systems for Sewer Collection Systems

Vacuum System – Air Release Vaults

Process Description

These are designed to allow for a pressure release to the vacuum system to prevent over-pressurizing. Air release vaults are easily recognized since they typically have a gravel floor and not a solid concrete floor. Corrosion can be aggressive due to hydrogen sulfide being released.

Areas of Application

- Concrete – Cast-In-Place Concrete

Recommended Applications

- New Construction
 - Concrete
- Rehabilitation/Repaint
 - Concrete
 - Brick



See Product Data Sheets for additional information.

*Options for coating systems offer:

Glass Flake Filled Epoxy for low permeability at lower film thickness

High Build Reinforced Epoxy

High Build Reinforced Epoxy

High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service

High Build, High Performance Amine Cured Epoxy for semi-structural properties and filling minor surface imperfections

New Construction Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Sher-Glass FF	15.0 – 20.0 mils	Sher-Glass FF	15.0 – 20.0 mils	30.0 – 40.0 mils
High Build Reinforced Epoxy	High Build Reinforced Epoxy	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Epoxy Mortar	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300 or DP6000 Mortar Direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils
Semi Structural, High Build High Chemical Resistant Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
Rehabilitation Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Sher-Glass FF	15.0 – 20.0 mils	Sher-Glass FF	15.0 – 20.0 mils	30.0 – 40.0 mils
High Build Reinforced Epoxy	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Epoxy Mortar	A.W. Cook Silatec MSM/Cemtec Thin Patch/Dura-Plate 2300 or DP6000 mortar direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	A.W. Cook Cemtec Silatec MSM/Cemtec Thin Patch or Dura-Plate 2300	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils
Semi Structural, High Build High Chemical Resistant Epoxy	Dura-Plate 2300 Resurfacer or Cementitious Repair Mortar	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.

*** Cementitious Repair Mortars are distributed by A.W. Cook Cements.



Inflow and Infiltration (I&I) Elimination Products

Polyurethane Grouts - AVANTI

Process Description

These products are specifically created to combat infiltration and inflow (I&I), as an economic and long-term solution. This includes I&I entering all areas of a collection system – manholes, mainline joints, service taps and laterals. These products are the first line of defense for any additional remediation required.

Areas of Application

- New Construction
 - Concrete
- Rehabilitation/Repaint
 - Concrete
 - Brick



New Construction/ Rehabilitation	Products	Expansion %	Single/Dual Component	Packaging	Additional Information
Pre-Cast Barrel Joints	AV-202(R) Multigrout/AV-202-LV Multigrout LV(TM)	600%	Single Component	Cartridges or Pails	Cures to a resilient, rubber-like flexible foam for use with areas susceptible to movement
Brick and CMU	AV-275 Soilgrout(TM) with AV-276 Soilcat(TM)	3000%	*Single Component	Cartridges or Pails	Cures into a rigid, closed cell foam that quickly fills voids and porous soils
Pipe Penetration	AV-290 Fast Set(TM)	3000%	Dual Component	Cartridges	Cures into a rigid, closed cell foam and can fill voids and stop high flow water leaks in seconds

* Catalyst available for quicker set

Wastewater Treatment Systems

Bar Screens

Influent Channels

Wet Well

Equalization Basins

Screw Pumps

Grit Chambers

Primary Clarifiers (New Construction)

Primary Clarifiers (Rehabilitation/Repaint)

Sludge Thickeners

Aeration Tanks

Digesters (New Construction)

Digesters (Rehabilitation/Repaint)

Methane Gas Tank

Secondary Clarifiers (New Construction)

Secondary Clarifiers (Rehabilitation/Repaint)

Drying Bed Structure

Belt Press

Membrane Filter Basin

Chlorine Contact Basins

Ozone/UV Disinfection



Coating Systems for Wastewater Treatment Facilities

Bar Screens

Process Description

This equipment is used to screen out large particles in the wastewater streams such as prophylactics, feminine hygiene products, large rocks, and miscellaneous debris. This trash is caught by bars and collected until a mechanical arm with interlocking bars can rotate through, raking the trash out and depositing it on a conveyor belt where it is then disposed of as solid waste.

Areas of Application

- Support Steel – the carbon steel supports of the bars and rakes
- Misc. Support Steel for the conveyor system

Recommended Applications

- New Construction
- Repaint

See Product Data Sheets for additional information.

*Options for coating systems offered:

Glass Flake Filled Epoxy for low permeability at lower film thickness

Low Temp Amine Cure Epoxy for low temperature cure down to 0°F



New Construction Steel	Shop Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	As Required	**	Sher-Glass FF	8.0 – 12.0 mils	Sher-Glass FF	8.0 – 12.0 mils	16.0 – 24.0 mils
Low Temp Amine Cure Epoxy	As Required	**	Macropoxy 5500LT	8.0 – 14.0 mils	Macropoxy 5500LT	8.0 – 14.0 mils	16.0 – 28.0 mils

Repaint Steel	Epoxy Repair	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	Steel-Seam FT910	As required, if needed	Sher-Glass FF	8.0 – 12.0 mils	Sher-Glass FF	8.0 – 12.0 mils	16.0 – 24.0 mils
Low Temp Amine Cure Epoxy	Steel-Seam FT910	As required, if needed	Macropoxy 5500LT	8.0 – 14.0 mils	Macropoxy 5500LT	8.0 – 14.0 mils	16.0 – 28.0 mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.



Coating Systems for Wastewater Treatment Facilities

Influent Channels

Process Description

These are channels through which the influent wastewater flows into the treatment facility and then goes through the bar screens and into the wet well. This environment is very corrosive due to the hydrogen sulfide content in the waste stream and the abrasive nature of the grit in the waste stream.

Areas of Application

- Concrete – Cast-In-Place Concrete
- Misc. Steel such as gates

Recommended Applications

- New Construction
 - Concrete
 - Steel
- Rehabilitation/Repaint
 - Concrete
 - Steel



See Product Data Sheets for additional information.

*Options for coating systems offer:

Amine Cured Epoxy for excellent abrasion resistance

High Build Amine Cured Epoxy for filling minor surface imperfections

High Build, High Performance Amine Cured Epoxy for semi-structural properties and filling minor surface imperfections

High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service

New Construction Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
High Build Amine Cured Epoxy	Dura-Plate 2300 resurfacer, or ***Cementitious Repair Mortar	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Amine Cured Epoxy Mortar	Dura-Plate 2300 Resurfacer or ***Cementitious Mortar or DP6000 mortar direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0-250.0 mils	80.0 – 250.0 mils
High Build, High Performance Amine Cured Epoxy	Dura-Plate 2300 Resurfacer or ***Cementitious Repair Mortar	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 Resurfacer or ***Cementitious Repair Mortar	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils

New Construction Steel	Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	As Required	**	Sher-Glass FF	10.0 – 20.0 mils	Sher-Glass FF	10.0 – 20.0 mils	20.0 – 40.0 mils
High Build Amine Cured Epoxy	Dura-Plate UHS Epoxy Primer	6.0-8.0 mils	Dura-Plate UHS	6.0 – 16.0 mils	Dura-Plate UHS	8.0 – 16.0 mils	20.0 – 40.0 mils
High Build, High Performance Amine Cured Epoxy	As Required	**	N/A	N/A	Dura-Plate 6100	40.0 – 60.0 mils	40.0 – 60.0 mils
High Build Aromatic Polyurethane Elastomer	As Required	**	N/A	N/A	Poly-Cote 115	40.0 – 50.0 mils	40.0 – 50.0 mils

Rehabilitation Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
High Build Reinforced Amine Cure Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Amine Cure Epoxy Mortar	Dura-Plate 2300 Resurfacer or ***Cementitious Mortar or DP6000 mortar direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils

Overcoating

For overcoating options, speak with a Water & Wastewater Market Segment Manager.

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.
 ** Dry Film Thickness (DFT) will vary according to product selected.
 *** Cementitious Repair Mortars are as distributed by A.W. Cook Cements.



Coating Systems for Wastewater Treatment Facilities

Wet Well

Process Description

This structure provides the last point of sewage storage in the conveyance and treatment process during periods of low flow demand. These structures are very corrosive due to the detention times and turbulent flows.

Areas of Application

- Concrete – Cast-In-Place Concrete
- Misc. Metals such as Ductile Iron Pipe

Recommended Applications

- New Construction
 - Concrete
 - Steel
- Rehabilitation/Repaint
 - Concrete
 - Steel



See Product Data Sheets for additional information.

*Options for coating systems offer:

Glass Flake Filled Epoxy for low permeability at lower film thickness

Amine Cured Epoxy for excellent abrasion resistance

High Build Amine Cured Epoxy for filling minor surface imperfections

High Build, High Performance Amine Cured Epoxy for semi-structural properties and filling minor surface imperfections

High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service

New Construction Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
High Build Reinforced Amine Cured Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Amine Cured Epoxy Mortar	Dura-Plate 2300 Resurfacer or ***Cementitious Mortar or DP6000 mortar direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0+ mils
Semi Structural, High Build High Chemical Resistant Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils

New Construction Steel	Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	As Required	**	Sher-Glass FF	10.0 – 20.0 mils	Sher-Glass FF	10.0 – 20.0 mils	20.0 – 40.0 mils
High Build Amine Cured Epoxy	Dura-Plate UHS Epoxy Primer	6.0 – 8.0 mils	Dura-Plate UHS	6.0 – 16.0 mils	Dura-Plate UHS	8.0 – 16.0 mils	20.0 – 40 mils
Semi Structural, High Build High Chemical Resistant Epoxy	As Required	**	N/A	N/A	Dura-Plate 6100	40.0 – 50.0 mils	40.0 – 50.0 mils
High Build Aromatic Polyurethane Elastomer	As Required	**	N/A	N/A	Poly-Cote 115	40.0 – 50.0 mils	40.0 – 50.0 mils

Rehabilitation Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
High Build Reinforced Amine Cured Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Amine Cured Epoxy Mortar	Dura-Plate 2300 Resurfacer or ***Cementitious Mortar or DP6000 mortar direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils

Overcoating

For overcoating options, speak with a Water & Wastewater Market Segment Manager.

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.
 ** Dry Film Thickness (DFT) will vary according to product selected.
 *** Cementitious Repair Mortars are as distributed by A.W. Cook Cements.



Coating Systems for Wastewater Treatment Facilities Equalization Basins

Process Description

These are large open top tanks constructed primarily of concrete that provide additional storage of sewage during periods of high flow demand. They allow the owner to equalize the flow with the treatment capacity of the plant.

Areas of Application

- Concrete – Cast-In-Place Concrete
- Misc. Metals such as Ductile Iron Pipe

Recommended Applications

- New Construction
 - Concrete
 - Steel
- Rehabilitation/Repaint
 - Concrete
 - Steel



See Product Data Sheets for additional information.

*Options for coating systems offer:

Glass Flake Filled Epoxy for low permeability at lower film thickness

Amine Cured Epoxy for excellent abrasion resistance

High Build Amine Cured Epoxy for filling minor surface imperfections

High Build, High Performance Amine Cured Epoxy for semi-structural properties and filling minor surface imperfections

High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service

New Construction Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
High Build Reinforced Amine Cured Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Amine Cured Epoxy Mortar	Dura-Plate 2300 Resurfacer or ***Cementitious Mortar or DP6000 mortar direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils

New Construction Steel	Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	As Required	**	Sher-Glass FF	10.0 – 20.0 mils	Sher-Glass FF	10.0 – 20.0 mils	20.0 – 40.0 mils
High Build Amine Cured Epoxy	Dura-Plate UHS Epoxy Primer	6.0 – 8.0 mils	Dura-Plate UHS	6.0 – 16.0 mils	Dura-Plate UHS	8.0 – 16.0 mils	20.0 – 40 mils
High Build, High Performance Amine Cured Epoxy	As Required	**	N/A	N/A	Dura-Plate 6100	40.0 – 50.0 mils	40.0 – 50.0 mils
High Build Aromatic Polyurethane Elastomer	As Required	**	N/A	N/A	Poly-Cote 115	40.0 – 50.0 mils	40.0 – 50.0 mils

Rehabilitation Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
High Build Reinforced Amine Cured Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 256.0 mils	80.0 – 250.0 mils
High Build Reinforced Amine Cured Epoxy Mortar	Dura-Plate 2300 Resurfacer or ***Cementitious Mortar or DP6000 mortar direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils

Overcoating

For overcoating options, speak with a Water & Wastewater Market Segment Manager.

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.
 ** Dry Film Thickness (DFT) will vary according to product selected.
 *** Cementitious Repair Mortars are distributed by A.W. Cook Cements.



Coating Systems for Wastewater Treatment Facilities

Screw Pumps

Process Description

The equipment is used to efficiently transfer wastewater from one area of the plant to another (commonly from the influent to the grit removal process). These structures can be either open top screws that allow access to the housing and screw pump or closed drum that may not allow for coating by any other method than flow coating.

Areas of Application

- Steel

Recommended Applications

- New Construction
- Repaint

See Product Data Sheets for additional information.

*Options for coating systems offer:

- Glass Flake Filled Epoxy for the lowest permeability coating
- Low Temp Amine Cure Epoxy for low temperature cure down to 0°F
- High Build Amine Cured Epoxy for excellent abrasion resistance



New Construction	Shop Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	As required	**	Sher-Glass FF	10.0 - 20.0 mils	Sher-Glass FF	10.0 - 20.0 mils	20.0 - 40.0 mils
High Build Amine Cured Epoxy	As required	**	Dura-Plate UHS	10.0 - 20.0 mils	Dura-Plate UHS	10.0 - 20.0 mils	20.0 - 40.0 mils

Overcoating

For overcoating options, speak with a Water & Wastewater Market Segment Manager.

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.



Coating Systems for Wastewater Treatment Facilities

Grit Chambers

Process Description

This structure allows inorganic materials like sand and gravel to settle out to the bottom of the tank while organics are kept in suspension. The inorganic materials are separated from the water and hauled to the landfill for disposal. These structures will produce some abrasive action from entering flows and can be very aggressive environments if they are covered for odor control measures.

Areas of Application

- Concrete – Cast-In-Place Concrete
- Misc. Metals such as Ductile Iron Pipe

Recommended Applications

- New Construction
 - Concrete
 - Steel
- Rehabilitation/Repaint
 - Concrete
 - Steel



See Product Data Sheets for additional information.

*Options for coating systems offer:

Glass Flake Filled Epoxy for low permeability at lower film thickness

Amine Cured Epoxy for excellent abrasion resistance

High Build Amine Cured Epoxy for filling minor surface imperfections

High Build, High Performance Amine Cured Epoxy for semi-structural properties and filling minor surface imperfections

High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service

New Construction Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
High Build Reinforced Amine Cured Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	22.0 – 28.0 mils	80.0 – 250.0 mils
High Build Reinforced Amine Cured Epoxy Mortar	Dura-Plate 2300 Resurfacer or ***Cementitious Mortar or DP6000 mortar direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils

New Construction Steel	Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	As Required	**	Sher-Glass FF	10.0 – 20.0 mils	Sher-Glass FF	10.0 – 20.0 mils	20.0 – 40.0 mils
High Build Amine Cured Epoxy	Dura-Plate UHS Epoxy Primer	6.0 – 8.0 mils	Dura-Plate UHS	6.0 – 16.0 mils	Dura-Plate UHS	8.0 – 16.0 mils	20.0 – 40.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	As Required	**	N/A	N/A	Dura-Plate 6100	40.0 – 50.0 mils	40.0 – 50.0 mils
High Build Aromatic Polyurethane Elastomer	As Required	**	N/A	N/A	Poly-Cote 115	40.0 – 50.0 mils	40.0 – 50.0 mils

Rehabilitation Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
High Build Reinforced Amine Cured Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Amine Cured Epoxy Mortar	Dura-Plate 2300 Resurfacer or ***Cementitious Mortar or DP6000 mortar direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 or Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils

Overcoating

For overcoating options, speak with a Water & Wastewater Market Segment Manager.

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.
 ** Dry Film Thickness (DFT) will vary according to product selected.
 *** Cementitious Repair Mortars are distributed by A.W. Cook Cements.



Coating Systems for Wastewater Treatment Facilities

Primary Clarifiers (New Construction)

Process Description

These structures separate the waste from the water by slowing the flow, allowing the heavier particles to settle out to the bottom and the light material to float to the top. The water flows through the weirs and cascades down the launder wall and into the clarifier troughs. The troughs are areas that are subject to erosion due to water flows and can be covered for odor control, causing accelerated corrosion.

Areas of Application

- Concrete – Cast-In-Place Concrete
- Misc. Metals such as carbon steel rake arms and bridges

Recommended Applications

- New Construction
 - Concrete
 - Steel (Immersion & Atmospheric)
- Rehabilitation/Repaint
 - Concrete
 - Steel (Immersion & Atmospheric)

See Product Data Sheets for additional information.

*Options for coating systems offer:

- Amine Cured Epoxy for economical protection
- Glass Flake Filled Epoxy for low permeability at lower film thickness
- Amine Cured UHS Epoxy for excellent abrasion resistance
- High Build Amine Cured Epoxy for filling minor surface imperfections
- High Build, High Performance Amine Cured Epoxy for semi-structural properties and filling minor surface imperfections
- High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service
- Silicone release Coating for reduction of maintenance cost associated with cleaning of soft fouling like algae



New Construction Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
High Build Reinforced Amine Cured Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Amine Cured Epoxy	Dura-Plate 2300 Resurfacer or ***Cementitious Mortar or DP6000 mortar direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 125.0+ mils
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils
Algae Control System - Launder Troughs	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS or Dura-Plate 6000	30.0 – 60.0 mils per coat	1-2 coats - Sher-Loxane 800	1-2 coats at 6.0 – 8.0 mils per coat	36.0 – 76.0 mils

New Construction Steel (Immersion)	Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Amine Cured Epoxy	As Required	**	Macropoxy 5500LT	10.0 – 14.0 mils	Macropoxy 5500LT	10.0 – 14.0 mils	20.0 – 28.0 mils
Glass Flake Reinforced Epoxy	As Required	**	Sher-Glass FF	10.0 – 20.0 mils	Sher-Glass FF	10.0 – 20.0 mils	20.0 – 40.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	As Required	**	N/A	N/A	Dura-Plate 6100	40.0 – 50.0 mils	40.0 – 50.0 mils
High Build Aromatic Polyurethane Elastomer	As Required	**	N/A	N/A	Poly-Cote 115	40.0 – 50.0 mils	40.0 – 50.0 mils

See Product Data Sheets for additional information.

*Options for coating systems offer:

Epoxy/Epoxy/Urethane conventional coating option

RIP Epoxy/Epoxy/Urethane improved corrosion protection

DTM Urethane/Urethane offers a 2-coat system with 3-coat performance

OZ/Epoxy/Urethane offers zinc-rich primer

New Construction Steel (Atmospheric)	Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Epoxy/Epoxy/Urethane	Macropoxy 646	3.0 – 5.0 mils	Macropoxy 646	3.0 – 5.0 mils	Hi-Solids Polyurethane/ Acrolon Ultra	2.0 – 4.0 mils	8.0 – 14.0 mils
VOC Compliant Epoxy/Epoxy/ Polyurethane/Polysiloxane	Macropoxy 5500LT	2.0 – 8.0 mils	Macropoxy 5500LT	6.0 – 14.0 mils	Hi-Solids 250 (<250g/l); Sher-Loxane 800 (<100 g/l)	3.0 – 5.0 mils Urethane; 4.0 – 8.0 mils Polysiloxane	11.0 – 27.0 mils Urethane; 14.0 – 30.0 mils Polysiloxane
OZ/Epoxy/Urethane	Corothane I GalvaPac	3.0 – 5.0 mils	Macropoxy 646	3.0 – 5.0 mils	Hi-Solids Polyurethane/ Acrolon Ultra	2.0 – 4.0 mils	8.0 – 14.0 mils

Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

* Other Zinc Products may be substituted such as Zinc Clad 4100.

** Dry Film Thickness (DFT) will vary according to product selected.

*** Cementitious Repair Mortars are distributed by A.W. Cook Cements.



Coating Systems for Wastewater Treatment Facilities

Primary Clarifiers (Rehabilitation/Repaint)

Process Description

These structures separate the waste from the water by slowing the flow, allowing the heavier particles to settle out to the bottom and the light material to float to the top. The water flows through the weirs and cascades down the launder wall and into the clarifier troughs. The troughs are areas that are subject to erosion due to water flows and can be covered for odor control, causing accelerated corrosion.

Areas of Application

- Concrete – Cast-In-Place Concrete
- Misc. Metals such as carbon steel rake arms and bridges

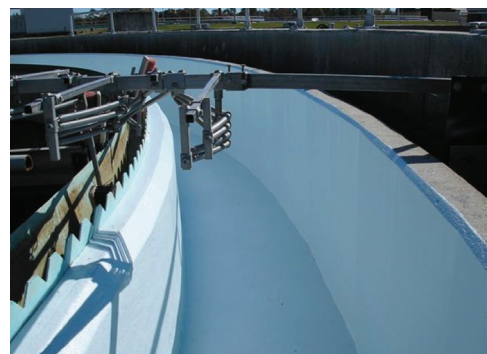
Recommended Applications

- New Construction
 - Concrete
 - Steel (Immersion & Atmospheric)
- Rehabilitation/Repaint
 - Concrete
 - Steel (Immersion & Atmospheric)

See Product Data Sheets for additional information.

*Options for coating systems offer:

- Amine Cured Epoxy for economical protection
- Glass Flake Filled Epoxy for low permeability at lower film thickness
- Amine Cured UHS Epoxy for excellent abrasion resistance
- High Build Amine Cured Epoxy for filling minor surface imperfections
- High Build, High Performance Amine Cured Epoxy for semi-structural properties and filling minor surface imperfections
- High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service
- Silicone Release Coating for reduction of maintenance cost associated with cleaning of soft fouling like algae



Rehabilitation Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer/Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
High Build Reinforced Amine Cured Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Amine Cured Epoxy	Dura-Plate 2300 Resurfacer or ***Cementitious Mortar or DP6000 mortar direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils
Algae Control System - Launder Troughs	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS or Dura-Plate 6000	30.0 – 60.0 mils per coat	1-2 coats - Sher-Loxane 800	1-2 coats at 6.0 – 8.0 mils per coat	36.0 – 76.0 mils

See Product Data Sheets for additional information.

*Options for coating systems offer:
Epoxy/Epoxy/Urethane conventional coating option
RIP Epoxy/Epoxy/Urethane improved corrosion protection
DTM Urethane/Urethane offers a 2-coat system with 3-coat performance
OZ/Epoxy/Urethane offers zinc-rich primer

Repaint Steel (Atmospheric)	Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Epoxy/Epoxy/Urethane	Macropoxy 646	3.0 – 5.0 mils	Macropoxy 646	3.0 – 5.0 mils	Hi-Solids Polyurethane/ Acrolon Ultra	2.0 – 4.0 mils	8.0 – 14.0 mils
VOC Compliant Epoxy/Epoxy/ Polyurethane/Polysiloaxne	Macropoxy 5500LT	2.0 – 8.0 mils	Macropoxy 5500LT	6.0 – 14.0 mils	Hi-Solids 250 (<250g/l)- Sher- Loxane 800 (<100 g/l)	3.0 – 5.0 mils Urethane; 4.0 – 8.0 mils Polysiloxane	11.0 – 27.0 mils Urethane; 14.0 – 30.0 mils Polysiloxane
DTM Urethane/Urethane	DTM Urethane Mastic	7.0 – 9.0 mils	N/A	N/A	Hi-Solids Polyurethane/ Acrolon Ultra	2.0 – 4.0 mils	9.0 – 13.0 mils
OZ/Epoxy/Urethane	Corothane 1 Galvapak	3.0 – 5.0 mils	Macropoxy 646	3.0 – 5.0 mils	Hi-Solids Polyurethane/ Acrolon Ultra	2.0 – 4.0 mils	8.0 – 14.0 mils

Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.
* Other Zinc Products may be substituted such as Zinc Clad 4100.
** Dry Film Thickness (DFT) will vary according to product selected.
*** Cementitious Repair Mortars are distributed by A.W. Cook Cements.

Overcoating

For overcoating options, speak with a Water & Wastewater Market Segment Manager.



Coating Systems for Wastewater Treatment Facilities Sludge Thickeners

Process Description

These are tanks that take the solids collected in the primary clarifiers and thicken the solids by allowing them to settle and entrained water is pressed out.

Areas of Application

- Concrete – Cast-In-Place Concrete
- Metal structures

Recommended Applications

- New Construction
 - Concrete
 - Pipe, Rake Arm, Drum and Catwalk
- Rehabilitation/Repaint
 - Concrete
 - Pipe, Rake Arm, Drum and Catwalk



See Product Data Sheets for additional information.

*Options for coating systems offer:

Glass Flake Filled Epoxy for low permeability at lower film thickness

Amine Cured Epoxy for excellent abrasion resistance

High Build Amine Cured Epoxy for filling minor surface imperfections

High Build, High Performance Amine Cured Epoxy for semi-structural properties and filling minor surface imperfections

High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service

New Construction Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
High Build Reinforced Amine Cured Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Amine Cured Epoxy Mortar	Dura-Plate 2300 Resurfacer or ***Cementitious Mortar or DP6000 mortar direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils

New Construction Steel	Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	As Required	**	Sher-Glass FF	10.0 – 20.0 mils	Sher-Glass FF	10.0 – 20.0 mils	20.0 – 40.0 mils
High Build Amine Cured Epoxy	Dura-Plate UHS Epoxy Primer	6.0 – 8.0 mils	Dura-Plate UHS	6.0 – 16.0 mils	Dura-Plate UHS	10.0 – 20.0 mils	18.0 – 32.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	As Required	**	N/A	N/A	Dura-Plate 6100	40.0 – 50.0 mils	40.0 – 50.0 mils
High Build Aromatic Polyurethane Elastomer	As Required	**	N/A	N/A	Poly-Cote 115	40.0 – 50.0 mils	40.0 – 50.0 mils

Rehabilitation Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
High Build Reinforced Amine Cured Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Amine Cured Epoxy Mortar	Dura-Plate 2300 Resurfacer or ***Cementitious Mortar or DP6000 mortar direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils

Overcoating

For overcoating options, speak with a Water & Wastewater Market Segment Manager.

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.
 ** Dry Film Thickness (DFT) will vary according to product selected.
 *** Cementitious Repair Mortars are as distributed by A.W. Cook Cements.



Coating Systems for Wastewater Treatment Facilities

Aeration Tanks

Process Description

These basins are used to add air, promoting the culture of bacteria that eat dissolved and suspended waste material in the water.

Areas of Application

- Concrete – Cast-In-Place Concrete
- Misc. Metals

Recommended Applications

- New Construction
 - Concrete
 - Metal
- Rehabilitation/Repaint
 - Concrete
 - Metal



See Product Data Sheets for additional information.

*Options for coating systems offer:

Amine Cured Epoxy for excellent abrasion resistance

High Build Amine Cured Epoxy for filling minor surface imperfections

High Build, High Performance Amine Cured Epoxy for semi-structural properties and filling minor surface imperfections

High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service

New Construction Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
High Build Reinforced Amine Cured Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Amine Cured Epoxy Mortar	Dura-Plate 2300 Resurfacer or ***Cementitious Mortar or DP6000 mortar direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils

New Construction Steel	Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	As Required	**	Sher-Glass FF	10.0 – 20.0 mils	Sher-Glass FF	10.0 – 20.0 mils	20.0 – 40.0 mils
High Build Amine Cured Epoxy	Dura-Plate UHS Epoxy Primer	6.0 – 8.0 mils	Dura-Plate UHS	6.0 – 16.0 mils	Dura-Plate UHS	10.0 – 20.0 mils	18.0 – 32.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	As Required	**	N/A	N/A	Dura-Plate 6100	40.0 – 50.0 mils	40.0 – 50.0 mils
High Build Aromatic Polyurethane Elastomer	As Required	**	N/A	N/A	Poly-Cote 115	40.0 – 50.0 mils	40.0 – 50.0 mils

Rehabilitation Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
High Build Reinforced Amine Cured Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Amine Cured Epoxy Mortar	Dura-Plate 2300 Resurfacer or ***Cementitious Mortar or DP6000 mortar direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils

Overcoating

For overcoating options, speak with a Water & Wastewater Market Segment Manager.

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.
 ** Dry Film Thickness (DFT) will vary according to product selected.
 *** Cementitious Repair Mortars are as distributed by A.W. Cook Cements.



Coating Systems for Wastewater Treatment Facilities Digesters (New Construction)

Process Description

These are tanks that receive the solids removed from the thickeners. The solids are digested by bacteria that break down the organic portion of the solids into a usable byproduct.

Areas of Application

- Concrete – Cast-In-Place Concrete
- Metal structures

Recommended Applications

- New Construction
 - Concrete
 - Steel
- Rehabilitation/Repaint
 - Concrete
 - Steel



See Product Data Sheets for additional information.

*Options for coating systems offer:

Glass Flake Filled Epoxy for low permeability at lower film thickness

Amine Cured Epoxy for excellent abrasion resistance

High Build Amine Cured Epoxy for filling minor surface imperfections

High Build, High Performance Amine Cured Epoxy for semi-structural properties and filling minor surface imperfections

High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service

New Construction Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
High Build Reinforced Amine Cured Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Reinforced Amine Cured Epoxy Mortar	Dura-Plate 2300 Resurfacer or ***Cementitious Mortar or DP6000 mortar direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 125.0+ mils
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils

New Construction Steel (Interior)	Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	As Required	**	Sher-Glass FF	15.0 – 20.0 mils	Sher-Glass FF	15.0 – 20.0 mils	30.0 – 40.0 mils
High Build Amine Cured Epoxy	As Required	**	N/A	N/A	Dura-Plate 6000	30.0-40.0 mils	30.0-40.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	As Required	**	N/A	N/A	Dura-Plate 6100	40.0 – 50.0 mils	40.0 – 50.0 mils
High Build Aromatic Polyurethane Elastomer	As Required	**	N/A	N/A	Poly-Cote 115	40.0 – 50.0 mils	40.0 – 50.0 mils

New Construction Steel (Exterior)	Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Epoxy/Epoxy/ Aliphatic Urethane	Macropoxy 646 or 5500LT	4.0 – 6.0 mils	Macropoxy 646 or 5500LT	4.0 – 6.0 mils	Hi-Solids Polyurethane / Acrolon Ultra	3.0 – 4.0 mils	11.0 – 16.0 mils
Zinc/Epoxy/Aliphatic Urethane	Corothane I GalvaPac 1K or 2K Zinc	3.0 – 4.0 mils	Macropoxy 646 or 5500LT	4.0 – 6.0 mils	Hi-Solids Poly or Acrolon Ultra	3.0 – 4.0 mils	11.0 – 16.0 mils
Zinc/Epoxy Polysiloxane	Corothane I GalvaPac 1K or 2K Zinc	3.0 – 4.0 mils	Sher-Loxane 800	4.0 – 6.0 mils	Sher-Loxane 800	4.0 – 6.0 mils	11.0 – 16.0 mils
Moisture Tolerant Epoxy, Aliphatic Polyurethane	Dura-Plate 301	4.0 – 6.0 mils	Dura-Plate 301	4.0 – 6.0 mils	Hi-Solids Polyurethane / Acrolon Ultra	3.0 – 4.0 mils	11.0 – 16.0 mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.

*** Cementitious Repair Mortars are distributed by A.W. Cook Cements.



Coating Systems for Wastewater Treatment Facilities Digesters (Rehabilitation/Repaint)

Process Description

These are tanks that receive the solids removed from the thickeners. The solids are digested by bacteria that break down the organic portion of the solids into a usable byproduct.

Areas of Application

- Concrete – Cast-In-Place Concrete
- Metal structures

Recommended Applications

- New Construction
 - Concrete
 - Steel
- Rehabilitation/Repaint
 - Concrete
 - Steel



See Product Data Sheets for additional information.

*Options for coating systems offer:

Glass Flake Filled Epoxy for low permeability at lower film thickness

Amine Cured Epoxy for excellent abrasion resistance

High Build Amine Cured Epoxy for filling minor surface imperfections

High Build, High Performance Amine Cured Epoxy for semi-structural properties and filling minor surface imperfections

High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service

Rehabilitation Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
High Build Reinforced Amine Cured Epoxy	Dura-Plate 2300 Resurfacer or ***Cementitious Mortar or DP6000 mortar direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 600 or Dura-Plate 6000 Mortar	80.0 – 250.0 mils	80.0 – 250.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	80.0 – 250.0 mils	80.0 – 250.0 mils
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	80.0 – 125.0+ mils	80.0 – 125.0+ mils

Repaint Steel (Atmospheric)	Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Amine Cured Epoxy, Aliphatic Polyurethane	Macropoxy 646 or 5500LT	4.0 – 6.0 mils	Macropoxy 646 or 5500LT	4.0 – 6.0 mils	Hi-Solids Polyurethane / Acrolon Ultra	3.0 – 4.0 mils	11.0 – 16.0 mils
Epoxy/Polysiloxane/Polysiloxane	Macropoxy 646 or 5500LT	4.0 – 6.0 mils	Sher-Loxane 800	4.0 – 6.0 mils	Sher-Loxane 800	4.0 – 6.0 mils	11.0 – 16.0 mils
Moisture Tolerant Epoxy, Aliphatic Polyurethane	Dura-Plate 301	4.0 – 6.0 mils	Dura-Plate 301	4.0 – 6.0 mils	Hi-Solids Polyurethane / Acrolon Ultra	3.0 – 4.0 mils	11.0 – 16.0 mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.

*** Cementitious Repair Mortars are distributed by A.W. Cook Cements.

Overcoating

For overcoating options, speak with a Water & Wastewater Market Segment Manager.



Coating Systems for Wastewater Treatment Facilities

Methane Gas Tank

Process Description

This is a storage tank used to capture the methane gas released during the digestion phase. The gas is then used to generate heat for the digester tanks during operation to provide a climate more suitable for bacteria growth.

Areas of Application

- Steel – Exterior Carbon Steel
- Steel – Interior Carbon Steel

Recommended Applications

- New Construction
- Repaint

See Product Data Sheets for additional information.

*Options for coating systems:

Exterior:

RIP Alkyd Primer/Acrylic/Acrylic

RIP Epoxy Primer/Epoxy/Aliphatic Polyurethane

Organic Zinc/Epoxy/Aliphatic Polyurethane

Interior:

Amine Epoxy Primer/Novolac Epoxy/Novolac Epoxy



New Construction & Repaint/Exterior	Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
RIP Alkyd Primer/Acrylic/Acrylic	Kem Bond HS	2.0 – 5.0 mils	Sher-Cryl HPA	2.5 – 4.0 mils	Sher-Cryl HPA	2.5 – 4.0 mils	7.0 – 13.0 mils
RIP Epoxy Primer/Epoxy/Aliphatic Polyurethane	RecoatEpoxy Primer	4.0 – 6.0 mils	Macropoxy 646	4.0 – 6.0 mils	Hi-Solids Polyurethane/Acrolon Ultra	3.0 – 4.0 mils	11.0 – 16.0 mils
OZ/Epoxy/Aliphatic Polyurethane	Zinc Clad 4100	3.0 – 5.0 mils	Macropoxy 646	4.0 – 6.0 mils	Hi-Solids Polyurethane/Acrolon Ultra	3.0 – 4.0 mils	10.0 – 15.0 mils
MCU/MCU/MCU	Corothane I Galvapac Zinc 1K/2K	3.0 – 4.0 mils	Corothane I IronOx B	3.0 – 5.0 mils	Corothane I Aliphatic HS	2.0 – 3.0 mils	8.0 – 12.0 mils
MCU Zinc/Epoxy/Polysiloxane	Corothane I GalvaPac 1K/2K	3.0 – 5.0 mils	Macropoxy 646 or Macropoxy 5500LT	5.0 – 10.0 mils	Sher-Loxane 800	4.0 – 6.0 mils	
Moisture Tolerant Epoxy/Moisture Tolerant Epoxy/Polyurethane	Dura-Plate 301	4.0 – 6.0 mils	Dura-Plate 301	4.0 – 6.0 mils	Hi-Solids Polyurethane/Acrolon Ultra	3.0 – 4.0 mils	11.0 – 16.0 mils

New Construction & Repaint/Interior	Optional Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Phenolac Epoxy/Phenolac Epoxy	Phenicon® FF	6.0 – 8.0 mils	N/A	N/A	Phenicon FF	6.0 – 8.0 mils	12.0 – 16.0 mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.



Coating Systems for Wastewater Treatment Facilities

Secondary Clarifiers (New Construction)

Process Description

These structures separate the waste from the water by slowing the flow, allowing the heavier particles and bacteria from the aeration process to settle out. A controlled amount of the removed bacteria are returned back to the aeration tanks to supply enough bacteria to feed on incoming waste. The water flows through the weirs and cascades down the launder wall and into the clarifier troughs.

Areas of Application

- Concrete – Cast-In-Place Concrete
- Misc. Metals such as carbon steel rake arms and bridges

Recommended Applications

- New Construction
 - Concrete
 - Steel (Immersion & Atmospheric)
- Rehabilitation/Repaint
 - Concrete
 - Steel (Immersion & Atmospheric)



See Product Data Sheets for additional information.

*Options for coating systems offer:

- Amine Cured Epoxy for economical protection
- Glass Flake Filled Epoxy for low permeability at lower film thickness
- Amine Cured UHS Epoxy for excellent abrasion resistance
- High Build Amine Cured Epoxy for filling minor surface imperfections
- High Build, High Performance Amine Cured Epoxy for semi-structural properties and filling minor surface imperfections
- High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service
- Silicone Release Coating for reduction of maintenance cost associated with cleaning of soft fouling like algae

New Construction Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Sher-Glass FF	15.0 – 20.0 mils	Sher-Glass FF	15.0 – 20.0 mils	30.0 – 40.0 mils
High Build Reinforced Amine Cured Epoxy	Dura-Plate 2300 Resurfacer or ***Cementitious Mortar or DP6000 mortar direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 or Dura-Plate 6000 Mortar	60.0 – 125.0+ mils	60.0 – 125.0 mils
Semi Structural, High Build High Chemical Resistant Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	60.0 – 125.0+ mils	60.0 – 125.0+ mils
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	60.0 – 125.0+ mils	60.0 – 125.0+ mils
Algae Control System - Launder Troughs	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS or Dura-Plate 6000	30.0 – 60.0 mils	1-2 coats of Sher-Loxane 800	6.0 – 8.0 mils per coat	36.0 – 76.0 mils

New Construction Steel (Immersion)	Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Amine Cured Epoxy	As Required	**	Tank Clad® HS	6.0 - 8.0 mils	Tank Clad® HS	6.0 - 8.0 mils	12.0 - 16.0 mils
Glass Flake Reinforced Epoxy	As Required	**	Sher-Glass FF	8.0 - 12.0 mils	Sher-Glass FF	8.0 - 12.0 mils	16.0 - 24.0 mils
High Build, High Performance Amine Cured Epoxy	As Required	**	N/A	N/A	Dura-Plate UHS or Dura-Plate 6100	25.0 - 30.0 mils	25.0 - 30.0 mils
High Build Aromatic Polyurethane Elastomer	As Required	**	N/A	N/A	Poly-Cote 115	25.0 - 30.0 mils	25.0 - 30.0 mils

See Product Data Sheets for additional information.

*Options for coating systems offer:

Epoxy/Epoxy/Urethane conventional coating option

RIP Epoxy/Epoxy/Urethane improved corrosion protection

DTM Urethane/Urethane offers a 2-coat system with 3-coat performance

OZ/Epoxy/Urethane offers zinc-rich primer

New Construction Steel (Atmospheric)	Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Epoxy/Epoxy/Urethane	Macropoxy 646	3.0 - 5.0 mils	Macropoxy 646	3.0 - 5.0 mils	Hi-Solids Polyurethane / Acrolon Ultra	2.0 - 4.0 mils	8.0 - 14.0 mils
RIP Epoxy/Epoxy/Urethane	Recoatable Epoxy Primer	3.0 - 5.0 mils	Macropoxy 646	3.0 - 5.0 mils	Hi-Solids Polyurethane / Acrolon Ultra	2.0 - 4.0 mils	8.0 - 14.0 mils
DTM Urethane/Urethane	DTM Urethane Mastic	7.0 - 9.0 mils	N/A	N/A	Hi-Solids Polyurethane / Acrolon Ultra	2.0 - 4.0 mils	9.0 - 13.0 mils
OZ/Epoxy/Polysiloxane	Corothane 1 Galvapac	3.0 - 5.0 mils	Macropoxy 646	3.0 - 5.0 mils	Sher-Loxane 800	4.0 - 6.0 mils	10.0 - 16.0 mils

Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

* Other Zinc Products may be substituted such as Zinc Clad 4100.

** Dry Film Thickness (DFT) will vary according to product selected.

*** Cementitious Repair Mortars are distributed by A.W. Cook Cements.



Coating Systems for Wastewater Treatment Facilities

Secondary Clarifiers (Rehabilitation/Repaint)

Process Description

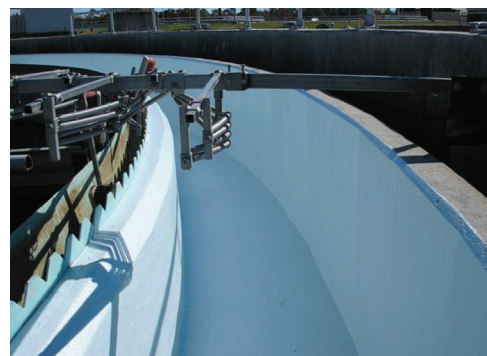
These structures separate the waste from the water by slowing the flow, allowing the heavier particles and bacteria from the aeration process to settle out. A controlled amount of the removed bacteria is returned back to the aeration tanks to supply enough bacteria to feed on incoming waste. The water flows through the weirs and cascades down the launder wall and into the clarifier troughs.

Areas of Application

- Concrete – Cast-In-Place Concrete
- Misc. Metals such as carbon steel rake arms and bridges

Recommended Applications

- New Construction
 - Concrete
 - Steel (Immersion & Atmospheric)
- Rehabilitation/Repaint
 - Concrete
 - Steel (Immersion & Atmospheric)



See Product Data Sheets for additional information.

*Options for coating systems offer:

Amine Cured Epoxy for economical protection

Glass Flake Filled Epoxy for low permeability at lower film thickness

Amine Cured UHS Epoxy for excellent abrasion resistance

High Build Amine Cured Epoxy for filling minor surface imperfections

High Build, High Performance Amine Cured Epoxy for semi-structural properties and filling minor surface imperfections

High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service

Silicone release Coating for reduction of maintenance cost associated with cleaning of soft fouling like algae

Rehabilitation Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Sher-Glass FF	15.0 – 20.0 mils	Sher-Glass FF	15.0 – 20.0 mils	30.0 – 40.0 mils
High Build Reinforced Amine Cured Epoxy	Dura-Plate 2300 Resurfacer or ***Cementitious Mortar or DP6000 mortar direct	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 or Dura-Plate 6000 Mortar	60.0 – 125.0+ mils	****60.0 – 125.0+ mils
Semi Structural, High Build High Chemical Resistant Epoxy	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6100	60.0 – 125.0+ mils	60.0 – 125.0+ mils
High Build Aromatic Polyurethane Elastomer	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	60.0 – 125.0+ mils	60.0 – 125.0+ mils
Algae Control System - Launder Troughs	Dura-Plate 2300 or ***Cementitious Repair Mortar or Steel-Seam FT910	As Required	Dura-Plate UHS or Dura-Plate 6000	30.0 – 60.0 mils	1-2 coats of Sher-Loxane 800	4.0 – 6.0 mils per coat	36.0 – 76.0 mils

See Product Data Sheets for additional information.

*Options for coating systems offer:
Epoxy/Epoxy/Urethane conventional coating option
RIP Epoxy/Epoxy/Urethane improved corrosion protection
DTM Urethane/Urethane offers a 2-coat system with 3-coat performance
OZ/Epoxy/Urethane offers zinc-rich primer

Repaint Steel (Atmospheric)	Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Epoxy/Epoxy/Urethane	Macropoxy 646	3.0 – 5.0 mils	Macropoxy 646	3.0 – 5.0 mils	Hi-Solids Polyurethane / Acrolon Ultra	2.0 – 4.0 mils	8.0 – 14.0 mils
RIP Epoxy/Epoxy/Urethane	Recoatable Epoxy Primer	3.0 – 5.0 mils	Macropoxy 646	3.0 – 5.0 mils	Hi-Solids Polyurethane / Acrolon Ultra	2.0 – 4.0 mils	8.0 – 14.0 mils
DTM Urethane/Urethane	DTM Urethane Mastic	7.0 – 9.0 mils	N/A	N/A	Hi-Solids Polyurethane / Acrolon Ultra	2.0 – 4.0 mils	9.0 – 13.0 mils
OZ/Epoxy/Polysiloxane	Corothane 1 Galvapak	3.0 – 5.0 mils	Macropoxy 646	3.0 – 5.0 mils	Sher-Loxane 800	4.0 – 6.0 mils	10.0 – 16.0 mils

Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.
* Other Zinc Products may be substituted such as Zinc Clad 4100
** Dry Film Thickness (DFT) will vary according to product selected.
*** Cementitious Repair Mortars are distributed by A.W. Cook Cements.

Overcoating

For overcoating options, speak with a Water & Wastewater Market Segment Manager.



Coating Systems for Wastewater Treatment Facilities

Drying Bed Structure

Process Description

This structure is nothing more than a cover over an open area by preventing rain or condensation for collection on the waste solids. That allows the moisture to evaporate out of the solids to the point at which the solids can be used for soil amendment

Areas of Application

- Steel — Exterior Carbon Steel

Recommended Applications

- New Construction
- Repaint



See Product Data Sheets for additional information.

* Options for coating systems offered:

Exterior:

- RIP Alkyd Primer/Acrylic/Acrylic
- RIP Epoxy Primer/Epoxy/Aliphatic Polyurethane
- Organic Zinc/Epoxy/ Aliphatic Polyurethane

New Construction & Repaint/Exterior	Primer	Dry Film Thickness (Mils)	Intermediate Coat	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
RIP Alkyd Primer/Acrylic/Acrylic	Kern Bond HS	2.0 – 5.0 mils	Sher-Cryl HPA	2.5 – 4.0 mils	Sher-Cryl HPA	2.5 – 4.0 mils	7.0 – 13.0 mils
RIP Epoxy Primer/Epoxy/Aliphatic Polyurethane	Recoatable Epoxy Primer	4.0 – 6.0 mils	Macropoxy 646	4.0 – 6.0 mils	Hi-Solids Polyurethane	3.0 – 4.0 mils	11.0 – 16.0 mils
OZ/Epoxy/Aliphatic Polyurethane	Zinc Clad 4100	3.0 – 5.0 mils	Macropoxy 646	4.0 – 6.0 mils	Hi-Solids Polyurethane	3.0 – 4.0 mils	10.0 – 15.0 mils
Zinc/Epoxy/Polysiloxane	Zinc Clad 4100 or Corothane I GalvaPac 1K/2K	3.0 – 5.0 mils	Macropoxy 646	5.0 – 10.0 mils	Sher-Loxane 800	4.0 – 6.0 mils	12.0 – 21.0 mils
MCU/MCU/MCU	Corothane I GalvaPac Zinc 1K/2K	3.0 – 4.0 mils	Corothane I IronOx B	3.0 – 5.0 mils	Corothane I Aliphatic HS	2.0 – 3.0 mils	8.0 – 12.0 mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.



Coating Systems for Wastewater Treatment Facilities

Belt Press

Process Description

These units process the fully digested sludge by removing the entrained water to produce a material that can be used as soil amendment for agricultural use.

Areas of Application

- Support Steel – the carbon steel supports
- Misc. Support Steel for the conveyor system

Recommended Applications

- New Construction
- Repaint

See Product Data Sheets for additional information.

*Options for coating systems offer:

- Glass Flake Filled Epoxy for low permeability at lower film thickness
- Low Temp Amine Cure Epoxy for low temperature cure down to 0°F



New Construction Steel	Shop Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	As Required	**	Sher-Glass FF	8.0 – 12.0 mils	Sher-Glass FF	8.0 – 12.0 mils	16.0 – 24.0 mils
Amine Cure Epoxy	As Required	**	Tank Clad® HS	6.0 – 8.0 mils	Tank Clad® HS	6.0 – 8.0 mils	12.0 – 16.0 mils

Repaint Steel	Epoxy Repair	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Glass Flake Reinforced Epoxy	Steel-Seam FT910	As required, if needed	Sher-Glass FF	8.0 – 12.0 mils	Sher-Glass FF	8.0 – 12.0 mils	16.0 – 24.0 mils
Amine Cure Epoxy	Steel-Seam FT910	As required, if needed	Tank Clad® HS	6.0 – 8.0 mils	Tank Clad® HS	6.0 – 8.0 mils	12.0 – 16.0 mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.



Coating Systems for Wastewater Treatment Facilities

Membrane Filter Basin

Process Description

This process allows water to pass through the hollow fibers of the membrane, filtering out contaminants in the water source to make them safe for drinking or other intended uses. The process acts to replace traditional gravity filter basins.

Areas of Application

- Steel – Atmospheric Service Carbon Steel
- Steel – Immersion Service
- Concrete – Immersion Service

Recommended Applications

- New Construction
- Repaint/Rehabilitation



See Product Data Sheets for additional information.

* Options for coating systems:

Atmospheric:

Organic Zinc / Epoxy / Aliphatic Polyurethane
Epoxy / Epoxy / Aliphatic Polyurethane
MCU / MCU / MCU

Immersion:

Steel – Amine Hi-Build Epoxy
Steel – Aromatic Polyurethane Elastomer
Concrete – Aromatic Polyurethane Elastomer

New Construction & Repaint Atmospheric Steel	Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
OZ Primer/Epoxy/Aliphatic Polyurethane	Corothane I GalvaPac Zinc 1K/2K	2.5 – 4.0 mils	Macropoxy 646	3.0 – 5.0 mils	HS Polyurethane/ Acrolon Ultra/ WB Acrolon 100	2.5 – 4.0 mils	8.0 – 13.0 mils
Epoxy/Epoxy/Aliphatic Urethane	Macropoxy 646	3.0 – 5.0 mils	Macropoxy 646	3.0 – 5.0 mils	HS Polyurethane/ Acrolon Ultra/ WB Acrolon 100	2.5 – 4.0 mils	8.5 – 14.0 mils
Zinc/Epoxy/Polysiloxane	Zinc Clad 4100 or Corothane I GalvaPac 1K/2K	3.0 – 5.0 mils	Macropoxy 646	5.0 – 10.0 mils	Sher-Loxane 800	4.0 – 6.0 mils	12.0 – 21.0 mils
MCU/MCU/MCU	Corothane I GalvaPac Zinc 1K/2K	3.0 – 4.0 mils	Corothane I IronOx B	3.0 – 5.0 mils	Corothane I Aliphatic HS	2.0 – 3.0 mils	8.0 – 12.0 mils
Epoxy/Epoxy/Polysiloxane	Macropoxy 646	3.0 – 5.0 mils	Macropoxy 646	5.0 – 10.0 mils	Sher-Loxane 800	4.0 – 6.0 mils	12.0 – 21.0 mils

New Construction & Repaint Immersion Steel and Concrete	Primer	Dry Film Thickness (Mils)	Intermediate	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Amine Hi-Build Epoxy – Steel	Optional	Optional	N/A	N/A	SherPlate PW	20.0 – 22.0 mils	20.0 – 22.0 mils
Amine Hi Build Reinforced Epoxy-Concrete/Steel	Optional	Dura-Plate 6000	60-125 mils	N/A	N/A	N/A	N/A
Aromatic Polyurethane Elastomer – Steel	Optional	Optional	N/A	N/A	Poly-Cote 115	30.0 – 40.0 mils	30.0 – 40.0 mils
Aromatic Polyurethane Elastomer – Concrete	Macropoxy 5000	400.0 – 500.0 Sq Ft/Gal	N/A	N/A	Poly-Cote 115	60.0 – 125.0 mils	60.0 – 125.0 mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.



Coating Systems for Wastewater Treatment Facilities

Chlorine Contact Basins

Process Description

This is where chlorine is added, typically in the form of sodium hypochlorite, to disinfect the water. Once the chlorine has been in contact with the water for the specified “contact time,” other chemicals may be added to neutralize any chlorine compounds remaining so that the water can be discharged safely into the environment.

Areas of Application

- Concrete – Cast-In-Place Concrete
- CMU

Recommended Applications

- New Construction
 - Concrete
- Rehabilitation/Repair
 - Concrete



See Product Data Sheets for additional information.

*Options for coating systems offer:

Amine Cured Epoxy for economical purposes

High Build Amine Cured Epoxy for excellent abrasion resistance

High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service

New Construction Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Amine Cured Epoxy	Dura-Plate 2300 Resurfacer or ***Cementitious Repair Mortar	As Required	Tank Clad HS	6.0 – 8.0 mils	Tank Clad HS	6.0 – 8.0 mils	12.0 – 16.0 mils
High Build Amine Cured Epoxy	Dura-Plate 2300 Resurfacer or ***Cementitious Repair Mortar	As Required	Dura-Plate UHS Primer	8.0 – 10.0 mils	Dura-Plate UHS	10.0 – 14.0 mils	18.0 – 24.0 mils
Hi Build Amine Reinforced Epoxy	Dura-Plate 2300 Resurfacer or ***Cementitious Mortar or DP6000 mortar direct	N/A	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 or Dura-Plate 6000 Mortar	60.0 – 80.0 mils	60.0 – 80.0 mils
Aromatic Polyurethane Elastomer	Dura-Plate 2300 Resurfacer or ***Cementitious Repair Mortar	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	60.0 – 80.0 mils	60.0 – 80.0 mils
Rehabilitation Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Amine Cured Epoxy	Dura-Plate 2300 Resurfacer or ***Cementitious Repair Mortar	As Required	Tank Clad HS	6.0 – 8.0 mils	Tank Clad HS	6.0 – 8.0 mils	12.0 – 16.0 mils
High Build Amine Cured Epoxy	Dura-Plate 2300 Resurfacer or ***Cementitious Repair Mortar	As Required	Dura-Plate UHS Primer	8.0 – 10.0 mils	Dura-Plate UHS	10.0 – 14.0 mils	18.0 – 24.0 mils
Hi Build Amine Reinforced Epoxy	Dura-Plate 2300 Resurfacer or ***Cementitious Mortar or DP6000 mortar direct	N/A	Macropoxy 5000 Clear (Optional to Control Out-Gassing)	400.0 – 500.0 Sq Ft/Gal	Dura-Plate 6000 or Dura-Plate 6000 Mortar	60.0 – 80.0 mils	60.0 – 80.0 mils
Aromatic Polyurethane Elastomer	Dura-Plate 2300 Resurfacer or ***Cementitious Repair Mortar	As Required	Macropoxy 5000 Clear	400.0 – 500.0 Sq Ft/Gal	Poly-Cote 115	60.0 – 80.0 mils	60.0 – 80.0 mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

** Dry Film Thickness (DFT) will vary according to product selected.

*** Cementitious Repair Mortars are distributed by A.W. Cook Cements.



Coating Systems for Wastewater Treatment Facilities

Ozone/UV Disinfection

Process Description

This process replaces the use of chlorine contact chambers and also accelerates the disinfection process, to remove remaining bacteria from wastewater using strong oxidizers or UV light.

Areas of Application

- Concrete – Cast-In-Place Concrete
- CMU

Recommended Applications

- New Construction
 - Concrete
 - Steel
- Rehabilitation/Repaint
 - Concrete
 - Steel

See Product Data Sheets for additional information.

*Options for coating systems offer:

Amine Cured Epoxy for economical purposes

High Build Amine Cured Epoxy for excellent abrasion resistance

High Build Aromatic Polyurethane Elastomer for filling surface imperfections and fast return to service

New Construction Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Amine Cured Epoxy	Dura-Plate 2300 Resurfacer or ***Cementitious Repair Mortar	As Required	Tank Clad HS	6.0 – 8.0 mils	Tank Clad HS	6.0 – 8.0 mils	12.0 – 16.0 mils
High Build Amine Cured Epoxy	Dura-Plate 2300 Resurfacer or ***Cementitious Repair Mortar	As Required	Dura-Plate UHS Primer	4.0 – 8.0 mils	Dura-Plate UHS	10.0 – 14.0 mils	14.0 – 22.0 mils
Amine Cured Reinforced Epoxy	Dura-Plate 2300 Resurfacer or *** Cementitious Mortar or DP6000 mortar direct	As Required	Dura-Plate UHS Primer	4.0 – 8.0 mils	Dura-Plate 6000	60.0 – 125.0 mils	64.0 – 133.0 mils
Aromatic Polyurethane Elastomer	Dura-Plate 2300 Resurfacer or ***Cementitious Repair Mortar	As Required	Dura-Plate UHS Primer	4.0 – 8.0 mils	Poly-Cote 115	60.0 – 80.0 mils	64.0 – 88.0 mils
Rehabilitation/Repaint Concrete	Epoxy/Cementitious Filler	Dry Film Thickness (Mils)	Primer	Dry Film Thickness (Mils)**	Topcoat	Dry Film Thickness (Mils)**	Total Dry Mils**
Amine Cured Epoxy	Dura-Plate 2300 Resurfacer or ***Cementitious Repair Mortar	As Required	Tank Clad HS	6.0 – 8.0 mils	Tank Clad HS	6.0 – 8.0 mils	12.0 – 16.0 mils
High Build Amine Cured Epoxy	Dura-Plate 2300 Resurfacer or ***Cementitious Repair Mortar	As Required	Dura-Plate UHS Primer	4.0 – 8.0 mils	Dura-Plate UHS	10.0 – 14.0 mils	14.0 – 22.0 mils
Amine Cured Reinforced Epoxy	Dura-Plate 2300 Resurfacer or *** Cementitious Mortar or DP6000 mortar direct	As Required	Dura-Plate UHS Primer	4.0 – 8.0 mils	Dura-Plate 6000	60.0 – 125.0 mils	64.0 – 133.0 mils
Aromatic Polyurethane Elastomer	Dura-Plate 2300 Resurfacer or ***Cementitious Repair Mortar	As Required	Dura-Plate UHS Primer	4.0 – 8.0 mils	Poly-Cote 115	60.0 – 80.0 mils	64.0 – 88.0 mils

* Note: For additional information and product options to those listed, contact your local Sherwin-Williams Representative.

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PROTECTIVE & MARINE

WATER & WASTEWATER GUIDE

THE SHERWIN-WILLIAMS DIFFERENCE

The industry experts at Sherwin-Williams Protective & Marine are renowned authorities in their respective fields of knowledge — including Bridge & Highway, Fire Protection, Flooring, Manufacturing & Processing, Freight Rail, Marine, Oil & Gas, Power Generation, Steel Fabrication and Water & Wastewater. Our global technology expertise in areas including tank linings, passive fire protection, corrosion under insulation (CUI) testing and fusion-bonded epoxy drives game-changing innovation and influences global industry standards.



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