



ELASTOMERIC AROMATIC POLYURETHANE

POLY-COTE™ 115 POLYURETHANE is a high-build, high-performance, elastomeric, 100%-solids, aromatic, polyurethane designed for corrosion protection of concrete and steel in municipal and industrial wastewater environments. Poly-Cote 115 delivers overall cost savings with improved lifecycles, faster project completion and enhanced crack-bridging properties for the existing asset.

BENEFITS



Provides improved lifecycle due to increased wear course thickness



Faster project completion and overall savings



Extends the useful service life of the asset through enhanced crack-bridging capabilities



Reduces out-of-service time for critical assets

RECOMMENDED USES

- Manholes
- Wet wells
- Lift stations
- Influent channels
- Digesters
- Steel pipe
- Concrete pipe
- Wastewater structures

FEATURES

High-film build

One coat application for steel; primer recommended for concrete

Flexible film

100% solids/low VOC

Fast return-to-service

FROM SPEC TO PROTECT

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WILLIAMS®**

POLY-COTE™ 115

ELASTOMERIC AROMATIC POLYURETHANE

Performance Characteristics		
Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	<100 mg loss
Adhesion	ASTM D4541; Annex A.4 (Test Method E)	>1500 psi
	ASTM D6677	Rating - 10
Cathodic Disbondment	ASTM G95, mtd A -1.5V, 30 days	<12 mm radius
Chemical Resistance	ASTM D543	10% H2SO4 <5% 30% NaCl <5% 30% NaOH <5% Diesel Fuel <5%
Dielectric Strength	ASTM D149	>250 V/mil
Elongation	ASTM D412	>40%
Flexibility (75 mils)	ASTM D522, 3" mandrel	No cracking or delamination
Hardness, Durometer	ASTM D2240	>65, Shore D
Impact Resistance	ASTM G14	>75 in-lbs
Service Temperature	Dry - Continuous: -40°F (-40°C) to 200°F (93°C) Maximum Surge: 350°F (177°C) Immersion - Insulated (max): 140°F (60°C) Non-Insulated: 120°F (49°C)	
Severe Wastewater Analysis Test	ASTM G210	<20% reduction from initial to final EIS values
Tensile Strength	ASTM D412	>2500 psi
Water Absorption	ASTM D570	<2%
Water Vapor Permeability	ASTM E96	0.09 inch-pounds @ 53 mils (1,325 microns)

Product Characteristics	
Finish	Gloss
Colors	Beige, gray, black, or blue
Volume Solids	100% mixed
VOC (measured):	No measurable VOC levels
Mix Ratio:	1A:3B by volume

Recommended Spreading Rate per coat:		
	Minimum	Maximum
Wet mils (microns)	20.0 (500)	>500* (12,500)
Dry mils (microns)	20.0 (500)	>500* (12,500)
-Coverage sq ft/gal (m²/L)	3 (0.07)	80 (1.96)

*250 mils (6250 microns) maximum for NSF applications, 26 mils (650 microns) maximum for FDA applications

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule			
	@ 45°F/7°C	@ 75°F/24°C	@ 105°F/41°C
Tack free:	6 hours	2 hours	1 hour
To recoat:	< 48 hours	< 48 hours	< 48 hours
To handle:	36 hours	12 hours	6 hours
Immersion*:	24 hours	12 hours	6 hours
Potlife:	12-15 minutes @ 75°F/24°C		

*72 hours @ 75°F/24°C for NSF applications
If maximum recoat time is exceeded, abrade surface before recoating.
Drying time is temperature, humidity, and film thickness dependent.

THE SHERWIN-WILLIAMS DIFFERENCE

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Protective & Marine Coatings
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