

MAINTENANCE SOLUTIONS FOR CORROSION PROTECTION OF STRUCTURAL STEEL





EXTEND YOUR BUILDING'S LIFESPAN AND PROTECT YOUR ASSETS

Ensuring the longevity and value of your building requires more than just durable, high-performance coatings. A proactive maintenance plan is crucial. It not only preserves your investment but also minimizes costs, disruptions, and downtime during maintenance activities.

Corrosion protection coatings for structural steel must withstand specific corrosion loads dictated by ambient conditions, as detailed in ISO 12944-1 and ISO 12944-2. However, over time, these coatings can deteriorate due to weather and environmental factors, leading to an unsightly appearance. This not only affects the aesthetic appeal of buildings but can also compromise their structural integrity.

THE MAINTENANCE PROCESS WITH SHERWIN-WILLIAMS

When maintaining a corrosion protection system, it's important to distinguish between repair, partial renewal, and complete renewal. Sherwin-Williams is your ideal partner for all maintenance needs. With unmatched technical service and a comprehensive range of high-performance products, we support you at every stage of your maintenance project.

Repair

Restoration of the corrosion protection system including the necessary surface preparation on small defects.

Partial renovation

Restoration of the corrosion protection system including necessary surface preparation at defects and application of at least one full-surface topcoat.

Complete renovation

Complete removal of the old corrosion protection system, surface preparation and installation of a new system.

1. Clarify your maintenance needs:

- Area and extend of defects
- Remaining life of the property
- Condition of the old coating system

2. Decision about maintenance scope:

Take decision for repair, partial or complete renovation.

REPAIR OR PARTIAL RENOVATION:

- Choose correct surface preparation method
- Select the right coating system

Please find our coating solutions for maintenance of steel structures in atmospheric conditions on the following pages in this brochure.

Our practice-based information will help you choosing the right corrosion protection system.

If you have any questions, don't hesitate to get in touch with your Sherwin-Williams representative directly, and we will advise you.

ARGUMENTS FOR COMPLETE RENOVATION:

- Large-scale rusting (i. e. < 20 %)
- Loss of adhesion to steel
- Intense blistering
- Embrittlement of old coating

Check out the Sherwin-Williams high performing and durable corrosion protection solutions.



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COATING SYSTEMS FOR MAINTENANCE OF STEEL CONSTRUCTIONS IN ATMOSPHERIC CONDITIONS

| Surface Preparation | Primer | | Intermediate coat | | Topcoat | |
|----------------------|-----------------------------|-----------|-----------------------------|-----------|----------------------------|-----------|
| | Product | NDFT [µm] | Product | NDFT [µm] | Product | NDFT [µm] |
| P St 3 | Macropoxy® 646 ¹ | 120 | | | | |
| Wa 2, Flash Rust 'M' | Dura-Plate® 301W | 120 | | | | |
| P St 3 | Macropoxy® 646 ¹ | 160 | | | | |
| P St 3 | Macropoxy® 646 ¹ | 100 | Acrolon® 7700 ² | 60 | | |
| Wa 2, Flash Rust 'M' | Dura-Plate® 301W | 100 | Acrolon® 7700 ² | 60 | | |
| P St 3 | Macropoxy® 646 ¹ | 110 | Macropoxy® 646 ¹ | 110 | | |
| P St 3 | Macropoxy® 646 ¹ | 160 | Acrolon® 7700 ² | 60 | | |
| Wa 2, Flash Rust 'M' | Dura-Plate® 301W | 160 | Acrolon® 7700 ² | 60 | | |
| P St 3 | Macropoxy® 646 ¹ | 130 | Macropoxy® 646 ¹ | 130 | | |
| P St 3 | Macropoxy® 646 ¹ | 100 | Macropoxy® 646 ¹ | 100 | Acrolon® 7700 ² | 60 |
| Wa 2, Flash Rust 'M' | Dura-Plate® 301W | 200 | Acrolon® 7700 ² | 60 | | |

¹ Alternative: Dura-Plate® 301W, Macropoxy® Primer HE N, Macropoxy® M902

² Alternative: Acrolon® 7300, Acrolon® 2330, Acrolon® EG-5, Acrolon® 1850



| Total System | | | Corrosivity Category | | | |
|--------------|-------------|-----------|----------------------|------------|------------|------------|
| No. of coats | Binder Type | NDFT [µm] | C2 | C3 | C4 | C5 |
| | | | > 10 years | > 10 years | > 10 years | > 10 years |
| 1 | EP | 120 | | | | |
| 1 | EP | 120 | | | | |
| 1 | EP | 160 | | | | |
| 2 | EP/PUR | 160 | | | | |
| 2 | EP/PUR | 160 | | | | |
| 2 | EP | 220 | | | | |
| 2 | EP/PUR | 220 | | | | |
| 2 | EP/PUR | 220 | | | | |
| 2 | EP | 260 | | | | |
| 3 | EP/PUR | 260 | | | | |
| 2 | EP/PUR | 260 | | | | |

AK: 1-pack alkyd resin coatings **AY:** 1-pack acrylic resin coatings **ESI:** 1-pack or 2-pack ethyl silicate coatings
EP: 2-pack epoxy resin coatings **PUR:** 1-pack or 2-pack polyurethane coatings
L: Low **M:** Medium **H:** High **VH:** Very High



REPACOR™ SW-1000

EASY TO HANDLE REPAIR COATING

2-PACK REPAIR COATING WITH ULTRAFAST CURING

Thanks to its practical mixer cartridge, this solvent-free, innovative 2-pack coating for maintenance or repair of mechanically damaged coating areas meets all requirements for a fast repair. Originally developed as a repair coating for rough offshore conditions and successfully tested in practice for many years, the product is also very suitable for use on other industries. Whenever a fast, but high quality and durable repair coating is needed.



Easy application of Repacor SW-1000 on a welding seam thanks to its handy cartridge.



A brush is used to spread the 2-pack coating material evenly.

BENEFITS

- Easy-to-use packaging for difficult repair jobs
- Single layer coating
- Diffusion resistant
- Surface tolerant – can also be used on unfamiliar coatings
- Glass flakes increase coating strength
- Impact and abrasion resistant
- Very high colour retention
- Solventfree, 100 % solids, CMR-free
- Can be overcoated with a wide range of Sherwin-Williams topcoats if required

EASY TO HANDLE AND FAST REPAIR COATING

Watch our short animated product demonstration and see how damaged coating areas can be repaired fast and easy.



WATCH
VIDEO





YOUR TRUSTED RESOURCE

OUR SERVICE – YOUR BENEFITS:



INSTRUCTION ON-SITE

during the coating works available on request

SURFACE CHECKS

carried out within the framework of control areas

Consultation and sale by our experts, certified and tested as

NACE AND FROSIO INSPECTORS

INDIVIDUAL CONSULTATION

in the choice of the optimal coating system

LEARN MORE ABOUT
OUR TECHNICAL SERVICE



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THE SHERWIN-WILLIAMS DIFFERENCE

Sherwin-Williams Protective & Marine delivers world-class industry subject matter expertise, unparalleled technical and specification service, and unmatched regional commercial team support to our customers around the globe. Our broad portfolio of high-performance coatings and systems - including protective liquid and powder, fire protection and resinous flooring - excel at combating corrosion and help customers achieve smarter, time-tested asset protection. We serve a wide array of markets across our rapidly growing international distribution footprint, including Bridge & Highway, Energy, High Value Infrastructure, Manufacturing & Processing, Marine, Rail, Power and Water & Wastewater.

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