



Polymers... beyond imagination

ANTICOR MRN

Product description:

ANTICOR MRN is a SINGLE-PACK, high performance grafted co-polymer based anticorrosion protective coating for Marine application.

Product highlights:

- Single Pack System
- Quick Drying at ambient temperature
- Excellent Corrosion Resistance
- Excellent Resistance to Abrasion
- Excellent Resistance to Acids, Alkalis and corrosive chemicals
- Excellent Outdoor Stability
- Self Anti Fouling property

Recommended use:

A specialty formulation specifically designed for use in marine environmental situations. To be used on steel alone or in combination with various systems. It also gives a desired cosmetic finish. It gives an excellent corrosion protection in both salt and fresh water. ANTICOR-MRN offers Anti-Fouling property, excellent Aging & weathering resistance coupled with resistance to chemicals and is used to protect the metal components & structure in the most aggressive conditions.

Performance properties:

| Sr. No. | Performance Test | Test Standard/Method | Result |
|---------|--|----------------------|--|
| 01 | Scratch Hardness (4.7 KG) | ASTMD – 7027 | No Exposure of Metal Substrate Passes the Test |
| 02 | Conical mandrel (4 mm) | ASTMD – 522 | No film cracking or crazing |
| 03 | Adhesion | ASTMD – 3359 | No Peel-Off |
| 04 | Salt Spray Resistance 1000 hrs (At 80 Microns DFT) | ASTMB - 117 | No Surface Deterioration & corrosion. |
| 05 | Thermal Stability at 200 ⁰ C for 24 hrs | Lab Method | No effect on coating surface. |
| 06 | UV Resistance (Wavelength- 254 nm) 1000 hrs. | Lab Method | No Chalking No Color change |

Film thickness and spreading rate:

Film thickness, dry (μ m) 35-40 (Rec. 2 coats)
Theoretical spreading rate (m²/l) 5.5-6



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Surface preparation:

All surfaces should be clean, dry and free from contamination. The surface should be assessed and treated in accordance with ISO 8504. Bare steel Cleanliness: Blast-cleaning to Sa 2½ (ISO-8501-1:2007). Power tool cleaning to min. St 2 (ISO 8501-1:2007) may be acceptable, subject to exposure conditions.

Surface Condition:

Temperature of the substrate - Minimum 3°C above the dew point of the air temperature
Relative humidity – Maximum 80 % measured in the vicinity of the substrate.
Ventilation - Good ventilation is required in confined areas to ensure proper drying

Do not use heated air until the solvents have evaporated from the paint film to avoid surface drying and solvent entrapment. During application and the initial drying of the coating, the coating should not be exposed to high humidity as this can result in loss of gloss.

Application methods:

Spray-Use Airless Spray or Air Assisted Spray
Brush - Recommended for stripe coating and small areas, care must be taken to achieve the specified dry film thickness.
Roller- May be used for small areas, however when using roller application care must be taken to apply sufficient material in order to achieve the specified dry film thickness.

Application data:

Mixing ratio- Single Pack Ready to Use System. No Mixing of Two Components
Pot life - No Pot Life (Can be used for six months after opening the Container) Viscosity if needed can be adjusted with special solvent THINNER SK13

Guiding data airless spray:

Pressure at nozzle- 15 MPa (150 kg/cm², 2100 psi)
Nozzle tip - 0.43-0.79 mm (0.017-0.031")
Spray angle - 40-80°
Filter Check to ensure that filters are clean.

Drying time:

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly. The figures given in the table are typical with: * Good ventilation (Outdoor exposure or free circulation of air) *

| Substrate temperature | -10°C | 0°C | 10°C | 23°C | 40°C |
|------------------------------------|---|-------|--------|--------|--------|
| Surface dry (dry to handle) | 30 min | 25min | 20 min | 15 min | 10 min |
| Hard dry | 24 hours | | | | |
| Dry to recoat, minimum | 30 minutes minimum (for testing purpose- 24 hrs) | | | | |



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Typical coating system:

| CONDITIONS AS PER ISO 12944-2: 1998 (E) | | | | |
|---|-------------------|---|-------------------|---|
| Corrosive Category | Surface Treatment | Exterior | Surface Treatment | Interior |
| C4 High | Blasting | PRIMECOAT Zn 50µm ANTICOR-MRN 40µm ANTICOR-MRN 40µm | Blasting | PRIMECOAT Zn 50µm ANTICOR-MRN 40µm ANTICOR-MRN 40µm |
| C5 Very High | Blasting | PRIMECOAT Zn 50µm PRIMECOAT Zn 50 µm ANTICOR-MRN 40µm ANTICOR-MRN 40µm | Blasting | PRIMECOAT Zn 50µm ANTICOR-MRN 40µm ANTICOR-MRN 40µm |

Other systems may be specified, depending on area of use.

Stacking and handling:

Do not stack the coated components upon one another immediately after coating. Use Nylon ropes or Wire ropes with rubber padding at contact areas to shift the components after coating.

Storage:

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition. Containers must be kept tightly closed.

Handling:

Handle with care. Stir well before use.

Packing size:

20 liters Metal Containers

Health and safety:

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not breathe or inhale mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately. For detailed information on the health and safety hazards and precautions for use of this product, we refer to the Material Safety Data Sheet.



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High Performance Surface coatings

Disclaimer:

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product can be used under conditions beyond our control, we can only guarantee the quality of the product itself. We also reserve the right to change the given data without notice. Minor product variations may be implemented in order to comply with local requirements.

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