



Polymers... beyond imagination

High Performance Surface coatings

ANTICOR MRN

Product description:

ANTICOR-MRN is a **SINGLE-PACK** high performance **marine** coating based on grafted copolymer technology which may be applied in high film thickness.

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 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	ASTM STD.	ACTUAL
01	Scratch Hardness (4.7 KG)	D – 7027	No Exposure of Metal Substrate Passes the Test
02	Conical mandrel (4 mm)	D – 522	No film cracking or crazing
03	Adhesion	D – 3359	No Peel-Off
04	Salt Spray Resistance 1000 HRS (At 80 Microns DFT)	B - 117	No Surface Deterioration & corrosion.
05	Thermal Stability at 200 ⁰ C for 24 Hrs	D – 2243	No effect on coating surface.
06	UV Resistance 1000 hrs.	D-4587-05 UV-b-313 nm ⁻¹	No Chalking No Colour change



Polymers... beyond imagination

Film thickness and spreading rate:

Film thickness, dry (μm)	35-40
Theoretical spreading rate (m^2/l)	5.5-6.0

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 (23°C) - No Pot Life (Can be used for six months after opening the container)

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.



Polymers... beyond imagination

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- 7 days)				

Typical coating system:

CONDITIONS AS PER ISO 12944-2: 1998 (E)					
Corrosive Category	Surface Treatment	Exterior		Surface Treatment	Interior
C4 High	Blasting	PRIMECOAT Zn 40µm	ANTICOR-MRN 60µm	Blasting	PRIMECOAT Zn 40µm ANTICOR-MRN 40µm ANTICOR-MRN 40µm
C5 Very High	Blasting	PRIMECOAT Zn 50µm	PRIMECOAT Zn 50 µm	Blasting	PRIMECOAT Zn 40µm ANTICOR-MRN 60µm ANTICOR-MRN 60µm
		ANTICOR-MRN 60µm	ANTICOR-MRN 60µm		

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



Polymers... beyond imagination

High Performance Surface coatings

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.

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.

ISSUED ON 15 JANUARY 2016 BY SK FORMULATIONS INDIA PVT. LTD.

THIS DATA SHEET SUPERSEDES THOSE PREVIOUSLY ISSUED