



Polymers... beyond imagination

High Performance Surface coatings

## ANTICOR FR

### Product description:

ANTICOR- FR is a single pack fire retardant anti corrosion coating for metal structures which is based on high performance grafted co polymer technology.

### Product highlights:

- Resistance to Fire.
- Excellent Corrosion Resistance
- Quick Drying at ambient temperature
- Excellent Resistance to UV radiation
- Excellent Resistance to Chemicals
- Excellent Outdoor Stability
- Available in all desired colour shades

### Unique properties:

Fire Spread Index – 5

Smoke Developed Index – 0

### Performance properties:

Sr. No.	Performance Test	ASTM STD.	ACTUAL
01	Scratch Hardness (4.2 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 105-120 Microns DFT)	B - 117	No Surface Deterioration & corrosion.
05	UV Resistance 1000 hrs.	D-4587-05 UV-b-313 nm <sup>-1</sup>	No Chalking No colour change
06	Resistance to Fire Spread	ASTM E-84 UL -723	Class I (A) Class A No fire spread



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**Film thickness and spreading rate:**

Film thickness, dry ( $\mu\text{m}$ ) (DFT) 35-40 Microns per coats  
Theoretical spreading rate ( $\text{m}^2/\text{l}$ ) 5.5-6.0  $\text{m}^2$  per Liter per coat

**Recommended use:**

A universal formulation specifically designed for use on metal structures as a Fire Retardant Coating in various environmental conditions. It also gives a desired finish. It gives excellent corrosion protection in the most aggressive conditions. ANTICOR-FR offers excellent Aging & weathering resistance coupled with resistance to chemicals.

**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. Blast Cleaning should be done after solvent wipe (SSPC SP1) to ensure removal of all dust, dirt, oil, grease, etc.

**Surface conditions:**

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

Do not use heated air until the solvents (Thinner) have evaporated (flushed off) from the paint film to avoid surface drying and solvent entrapment. During application and the initial drying of the coating, the object 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 System. (No Mixing of Two Components)  
Pot life - Not Applicable. No Pot Life (Can be used for six months after opening the Container)

**Guiding data airless spray:**

Pressure at nozzle- 15 MPa (150  $\text{kg}/\text{cm}^2$ , 2100 psi)  
Nozzle tip - 0.43-0.79 mm (0.017-0.031") Suitable  
Spray angle - 40-80°  
Filter Check to ensure that filters are clean.



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**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) \*

<b>Substrate temperature</b>	-10°C	0°C	10°C	23°C	40°C
<b>Surface dry (dry to handle)</b>	30 min	25min	20 min	15 min	10 min
<b>Hard dry</b>	24 hours				
<b>Dry to recoat, minimum</b>	30 minutes minimum (for testing purpose- 7 days)				

**Typical coating system:**

Above Ground, General Atmospheric conditions

<b>Corrosive Category</b>	<b>Surface Treatment</b>	<b>Exterior / Interior</b>
C1 to C4	Blasting	ANTICOR FR 40µm X 3 coats
C5 I	Blasting	PRIMECOAT ZN 40µm ANTICOR FR 40µm X 3 coats

**Handling of coated jobs:**

Do not stack coated components one over other immediately after coating.

Use Nylon ropes or Wire ropes with rubber padding at contact areas to shift the components after coating is dry to handle.

**Storage:**

The product must be stored in accordance with national regulations. Storage conditions are to 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. Do not leave the container open after use. Make it air tight.

**Packing size:**

20 liters Metal Containers

**Health and safety:**

Please observe the precautionary notices displayed on the container& in our MSDS. 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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**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