



Polymers... beyond imagination

High Performance Surface coatings

G-coat

Product Description

G-COAT is a Weather resistant, high performance GRAFTED COPOLYMER based Cold Galvanized coating system which may be applied in place of Hot Dip Galvanized process.

Product highlights

- Excellent Corrosion Resistance
- Quick Drying
- Excellent Resistance to Abrasion
- Excellent Resistance to UV radiation and Chemicals.
- Excellent Outdoor Stability

Recommended use

A proprietary formulation specifically designed for use in aggressive environmental situations. To be used on steel alone to give long term corrosion protection. **G-COAT** offers excellent Aging & weathering resistance coupled with resistance to chemicals and is used to protect the metal components & structure in the most aggressive conditions.

Film thickness and spreading rate

Film thickness; dry (μm) (DFT) 35-40 Microns per coat
Theoretical spreading rate 5.5-6(m^2/l)

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 600 ⁰ C for 24 Hrs	D – 2243	No effect on coating surface.

Compatibility with Galvanized surface- Very Good



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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 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 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, 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- Mix Zinc Dust packet attached with the Tin in Single Pack Ready to Use System & stir well before application.

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

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	72 hours				
Dry to recoat, minimum	30 minutes minimum (for testing purpose- 7 days)				

Typical paint system

Above & Under Ground, Aggressive Atmospheric conditions

G-COAT - 3 x40 µm (Dry Film Thickness)

Other systems may be specified, depending on area of use



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Stacking and handling

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 in case of crane handling.

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.

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.

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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