



# EpoxiGard Top Coat

## *Product Description*

EpoxiGard Top Coat is a 2-pack, epoxy based coating primer/topcoat which may be applied in high film thickness to steel, galvanised steel and concrete. This product is part of a complete system.

## *Product Characteristics*

- Good chemical resistance to mineral acids, alkalis, salts and solvents
- Good impact and abrasion resistance
- Good adhesion to steel and concrete
- Provides protection to concrete from chloride ingress
- Accommodates substrate vibration and movement, flexible in nature
- High temperature resistance (up to 85 °C)
- Mixing ratio 4:1, A:B by volume
- Thoroughly mix components and allow to stand for 10 minutes prior to use
- Can be applied by brush, roller or airless spray
- Airless spray tip size 17-21 thou (0.43mm - 0.53mm)
- Thin with no more than 5% epoxy thinner (generally not required)
- No filters in pump
- Handling times @25°C: pot life - 60 minutes, touch dry/recoat - 3 hours
- Wet film thickness (WFT) per coat: 300 ± 100 µm
- Dry film thickness (DFT) per coat: 255 ± 85 µm
- Theoretical coverage rate: 3.75 ± 1.25 m<sup>2</sup>/L
- Cleaners/thinners: epoxy thinners
- Colours: black, white, grey, others by special arrangement

## *Product Uses*

EpoxiGard Top Coat offers long term corrosion protection, mechanical protection and weathering resistance.

EpoxiGard Top Coat may be used on steel where blast cleaning may not be possible, and where gloss retention is of minor importance.

EpoxiGard Top Coat protects structural steel, pipe externals, pipe racks, tanks, offshore platforms, lock gates, bridges, concrete and also galvanized surfaces.

## *Product Application*

Prepare steel surfaces by mechanical means to the minimum standard 'ISO 8501 St2 thorough hand and power tool cleaning'. Coating performance is proportional to the degree of surface preparation. Abrasive blasting is recommended for more severe environments.

Prepare concrete by removing laitance and other foreign matter surface contaminants. Diamond grinding or sweep blasting is the optimum surface preparation for coating adhesion.

Surface temperature of substrates must be at least 10 °C and 3 °C above the dew point of the air in the vicinity of the substrate.

When used over pre-existing coatings, the surface must be clean and dry. A patch test should be carried out for compatibility and adhesion. Use in well ventilated areas.

Spray techniques should be used to achieve a nominal dry film thickness of 250 µm.

Recoating should occur prior to full cure of the preceding coat. If full cure has been reached it is necessary to abrade the coating surface to provide a key for subsequent coats.

### **IMPORTANT**

*All statements and data presented herein are given in good faith and believed to be appropriate and reliable. It is given without express or implied warrant or guarantee. Potential users of our materials are urged to conduct confirmatory trials to satisfy themselves as to the suitability of the selected product for their particular end use, prior to purchase.*

### Product Properties

Property	Test Method	Value
Solids Content	ISO 1515	82 ± 2 w/w%
Specific Gravity @ 25°C - Base	ASTM D1475	1.74
Specific Gravity @ 25°C - Activator	ASTM D1475	0.96
Specific Gravity @ 25°C - Mixed	ASTM D1475	1.58
Flash Point	ASTM D92	35°C
Adhesion to Steel	ASTM D4541	12.4 MPa
Holiday Detection	ASTM G62	≤2 kV
Salt Spray Corrosion	ASTM B117	>1500 h
Water Fog Humidity @40°C & 100% Relative Humidity	ASTM D1735	>1500 h
Handling Time - One Coat @ 10°C	ISO 9117-3	8 h
Drying Time – to Recoat @ 23°C	ISO 9117-3	4 h
Drying Time – to Recoat @ 35°C	ISO 9117-3	2.5 h
Drying Time – Full Cure @ 10°C	ISO 9117-3	14 days
Drying Time – Full Cure @ 23°C	ISO 9117-3	7 days
Drying Time – Full Cure @ 35°C	ISO 9117-3	3 days
Application Temperatures		+10 to +50°C
Service Temperature		-34 to +80°C
Storage Temperature		+5 to +35°C
Shelf Life		≥12 months when stored in original containers

### Product Packaging

Part No.	Volume	Container	Colour
PCSE3.0	4 L	Tin	Black, White, Grey
PCSE2.0	20 L	Drum	Black, White, Grey

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