ROCK GUARD 700

Epoxy Coating

Product description.

Two component highly cross linked solvent free amine cured novolac/ phenolic epoxy coating, that offers exceptional barrier protection and resistance to wet and dry cycling at elevated temperature up to 450 °F (232 °C) designed to give high chemical resistance and electric insulation, can be used as primer, mide and final coat in atmospheric and immersed environment, the product is suitable for different substrate: carbon steel, galvanized steel, stainless steel and concrete

Designed For. Dry transformer to reshaping the surface of dry transformer phase body imperfection as a result of casting and buried tanks and pipes such as chemical storage, waste water, grey water, process water, concrete bund, fire service lines and drilling mud tanks. Can be used in pressure vessels. This coating has very good resistance to high temperature products. Refer to Protective Product Resistance List.

Technical characteristics

Shelf life: 36 months Density:1.45 ± 0.2 g/cm³ Theoretical spreading rate:6.6m²/l at 150 µm
Colour: grey, white, light red Volume Solids:100 ± 2 % Texture: gloss

Pre-treatment

Surface preparation

Steel - Blast Cleaning All surfaces should be clean, dry and free from contamination. Surfaces should be treated in accordance with ISO 8504:2000. All edges shall be ground to a minimum radius of 2 mm. Remove weld spatter and smooth weld seams by using disc grinders, chipping hammers or other suitable power tools. Sharp edges, weld seams, corners and other areas that are likely to receive less dry film thickness than specified, should be stripe coated. The surfaces shall be blast-cleaned to min. Sa 2½ (ISO 8501-1:2007). The surface profile and the anchor pattern shall be between 40 µm and 70 µm. The abrasives shall be free from oil, grease, moisture, chloride contamination etc.

Minor repair / Touch-up

All surfaces should be clean, dry and free from contamination. Surfaces should be treated in accordance with ISO 8504:2000. Any corroded areas should be prepared by power-tool cleaning or water jetting. Power-tool cleaning to min. St 2, preferably St 3 (ISO 8501-1:2007). Care shall be taken to ensure that power-tool cleaning does not polish the steel surface. If the surface being prepared lies adjacent to a coated surface, the power tool cleaning shall overlap the coated surface by at least 25 mm and the coated surface shall be feathered. Water jetting in accordance to ISO 8591-4: 2006 to a cleanliness of Wa 2 or better for atmospheric exposure. Acceptable flash rust degree is M (medium) but degree L (light) is preferred. A water pressure of at least of 1000 bar (approx. 15.000 psi) is recommended

Power tool Cleaning

The performance of this paint will depend on the degree of surface preparation. Surfaces should be treated in accordance with ISO 8504:2000.
The surface shall be cleaned by high pressure steam/detergent cleaning to remove dirt, grease and/or salt deposits in accordance with SSPC SP1. Power-tool cleaning to min. St 2, preferably St 3 (ISO 8501-1:2007).
Care shall be taken to ensure that power-tool cleaning does not polish the steel surface. If the surface being prepared lies adjacent to a coated surface, the power tool cleaning shall overlap the coated surface by at least 25 mm and the coated surface shall be feathered

Please refer to the EU Material Safety Data Sheet for product labelling as required by Directive 1999/45/EC and the respective national rules.
The products are suitable for professional use only.

ROCK COATING COMPANY

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Application:-

Mixing ratio

Stir well before use.
Base A 100 vol
Hardener 50 vol
Ideal application conditions for two-component EPOXY products: 20°C and a relative air humidity below 80%. Application not possible in temperatures below 10°C.

Pot life

10°C: 12hour 25°C: 4hour 30°C: 2hour

Spray guns

Airless gun: 120 - 180 Bar nozzle size 0.38 - 0.53mm thinner 3%
Air spray: 4 -6 Bar nozzle size 1.5 - 2 mm thinner 10%
Brush: multicoated are required to achieve the thickness Thinner 5% RC700
Roller: multicoated are required to achieve the thickness Thinner 5% RC700

No of coats

	DFT	WFT	TSR
Range	**150 - 500**	**150 - 500**	**6.6 - 2**
Recommended	**150**	**150**	**6.6**

Drying

Substrate temperature	Touch dry	Dry to handle	Full cure	Dry to recoat Min – max
10°C	15 hours	30 hours	15 day	30h – 30d
25°C	2 hours	8 hours	4 day	12h-14d
40°C	1 hours	6 hours	3 day	4h – 5d

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TYPICAL PAINT SYSTEM
A typical system for this product is shown below and should be taken for guidance only.
ROCK GUARD 700 150µm

For further information about full system specification consult your **ROCK COATING** supplier

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APPLICATION CONDITIONS

The temperature of the substrate should be at least 3°C above the dew point of the air. Temperature and relative humidity should be measured in the vicinity of the substrate. The maximum recommended surface temperature is approx. 30°C. Higher steel temperatures are acceptable provided dry-spray is avoided by proper spray application and extra thinning if required. In extreme cases it may be necessary to reduce film thickness in order to avoid sagging. When applying the paint in confined spaces, provide adequate ventilation during application and drying. The temperature of the mixed paint should be at least 15°C, otherwise extra solvent may be required to obtain a proper application viscosity.

Storage and shelf life.

The product must be stored in accordance with national regulations. The cans are to be kept in a dry, cool, well ventilated space and away from source of heat and ignition. Cans must be kept tightly closed.

Health and safety.

Observe the precautionary notices on the label of the container. A material safety data sheet is available upon request and national or local safety regulations should be followed. This product is intended for use by professional applicators. As a general rule, avoid skin- and eye contact by wearing overalls, gloves, goggles, mask, etc. Spraying should be carried out under well-ventilated conditions. This product contains flammable materials and should be kept away from sparks and open flames. Smoking in the area should not be permitted.

Disclaimer.

The information in this data sheet is provided to the best of our knowledge. However, we have no control over either quality or condition of the substrate and other factors affecting the use and application of this product. Therefore, we cannot accept any liability whatsoever or howsoever arising from the performance of the product or for any loss or damage arising from the use of this product. We reserve the right to change the product without notice.

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