RENITHERM® Primer EP 61

2-component Primer in the Renitherm® Fire Protective System

Product Description

Renitherm Primer EP 61 is a two-pack primer coat based on epoxy resin with zincphosphate, with the following properties:

- High mechanical strength, with excellent adhesion properties.
- Application on steel, hot-dip galvanized steel, aluminium.
- Applicable at standard film thickness.

Application Areas

Renitherm Primer EP 61 provides a mechanical, chemical and water resistant coating, applied at standard film thickness to exposed galvanised steel surfaces, and other non-ferrous metals.

Renitherm Primer EP 61 is recommended for use as an adhesion-promoting primer on galvanized steel, for Renitherm Fire Protection Systems for Steel.

Packaging and Colours

Packaging:	24 kg. Base component, 4 kg. Hardener
Colours:	Sand (RAL 1002), redbrown Other shades available on request
Finish:	matt

Technical Data

Composition:	Renitherm Primer EP 61: Epoxy resin, solvent containing Hardener EP 61: Aminadduct
Mass density (Mixed):	1.4 g/cm^3
Solids content (Mixed):	by volume: 47 % by weight: 67 %
Theoretical coverage:	180 g/m² at 60 µm dry film thickness 100 µm WFT is approx. 50 µm DFT
Practical	approx. 290 g/m² at 60 µm
Heat resistance:	dry c. +120 deg. C. continuous c. +150 deg. C. short term humid/liquid Details of resistance are available on request
Shelf life:	12 months in cool and dry storage conditions, in original unopened containers.

Application Instructions

Surface preparation/ steel:	Compatible primers should be used. Surfaces must be clean, dry and free from dirt, grease, oil and salts. Areas of breakdown should be manually cleaned and repaired.
Galvanised Steel and other non ferrous metals:	Remove any contamination. Surfaces should be dry and free from dirt, oil and grease. In situations of frequent condensation or where salt formation is likely the surface should be prepared by sweep blasting. Prolonged contact with water is to be avoided.
Stainless Steel/ Aluminium:	Sweep blast to give an average profile of 50 microns.

Brushing/Rolling:	To achieve a regular finish with a MIO top coat, apply in one direction only with the brush or roller. To avoid a striping pattern, spray application is necessary.
Application and drying temperature:	min. +10 deg. C. (Surface and ambiance).
Relative humidity:	Max. 80% (application temperature should be at least 3 deg. C. above the dew point).
Product mixing:	Stir base component thoroughly then add the hardener at the specified mixing ratio. Stir fully using a powered mixer.
Mixing ratio by weight:	Base **:** Hardener **100 : 20 (5 : 1)**
Preparation of coating material:	According to the specific requirements, thinner should be added as follows: Brushing/Rolling: 0 - 2 % Thinner R 400 Air assisted spraying: 5 - 10 % Thinner R 400 Airless spraying (Nozzle>0,38 mm) 0 - 2 % Thinner R 400
Pot life:	Min. 8 hours at +20 °C.
Drying/ curing (20 °C.):	Dust-free after approx. 30 minutes Tack-free 2-3 hours, overcoatable after 5 hours
Nominal recommended dry film thickness:	40 µm (corresponds to 90 µm wet film thickness)
Theoretical covering capacity:	8,3 m².⁄kg at 40 microns dry film thickness.
Theoretical consumption:	0.12 kg/m² at 40 microns dry film thickness. The practical consumption depends on the surface configuration, and the application method.

Overcoatable: With itself and two-pack systems based on EP and AY-PUR and Renitherm intumescent Fire Protection Systems for Steel.

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