

PRIMER 036 EPOSOL 100 PRIMER 3500

Primers for the intumescent systems CHAR 21 and CHAR 22.

PRIMER 036 provides a cost effective solution for steel in milder environments while **EPOSOL 100** offers anticorrosion performance in heavy duty.

PRIMER 3500 improves adhesion on concrete and masonry.

All are proved compatible as perfect undercoats for our intumescent coatings.

PRIMER 036 is a quick drying, one-pack phenolic alkyd primer. Anticorrosive properties and good adhesion to steel and zinc coated steel, make it a comfortable and cost effective solution for indoor exposure, the most common exposure condition for an intumescent system.

EPOSOL 100 is a 2-pack epoxy primer to be used as an undercoat for intumescent systems in aggressive environments where a higher corrosion protection is specified.

PRIMER 3500 is a waterborne primer for deep substrate impregnation of concrete, reinforced concrete, masonry and all porous mineral substrates. Improves adhesion and reduces absorption.

ISO 12944 defines corrosion resistance of coated steel in different environments. Classes are defined from C1 to C5 ranging from indoor heated buildings to industrial/marine areas with aggressive atmospheres or high salinity.

ETAG 018 issued by EOTA addresses the use of intumescent coatings classifying exposure, durability and the use of primers and topcoats.

An intumescent coating must be experimentally tested to prove fire performance with different primers.

Families of common primers are given (short/medium oil alkyd, 2-K epoxy...) so that one test proves compatibility for the whole family.

PRIMER 036

DENSITY: 1.50 ± 0,05 kg/dm³ at 20°C

SOLIDS CONTENT: 75% ±5%w/w - 41% ±5%v/v

COLOUR: Grey RAL 7038 approx

PACKAGING: 15L in ADR steel drums

SHELF LIFE *: 12 months

SPREADING RATE:

100g/m² wet for 40 µm - DFT = 15m²/L (theoretical)

APPLICATION: by roller, brush or spray systems

THINNING: 5 to 15%

With synthetic thinners (toluene/xylene/naphta) or nitro thinners

DRYING TIME **: 15 min touch / 24 hours through-dry

MIN/MAX APPLICATION TEMPERATURE: +0°C / +40°C

VISCOSITY (Brookfield SP6, 20 RPM) 40000 cPs

FLOW (Ford cup 4) 4'±30"

EPOSOL PRIMER 100

DENSITY: 1.50 ± 0,05 kg/dm³ at 20°C

SOLIDS CONTENT: 75% ±5%w/w - 55% ±5%v/v

COLOUR: Oxide yellow RAL 1006 approx

PACKING: 1 ADR steel drums + 1 PE bottle

SHELF LIFE *: 12 months

SPREADING RATE:

130g/m² wet for 50 µm - DFT = 10m²/L (theoretical)

APPLICATION: by roller, brush or spray

THINNING: 5 to 10% with thinners for epoxies

DRYING TIME **: 6 hours touch / 24 hours through-dry

MIN/MAX APPLICATION TEMPERATURE +5°C / +40°C

VISCOSITY (Brookfield SP4, 20 RPM) 30000 cPs

FLOW: (Ford cup 4) 4'±30"

POT LIFE 45 minutes

PRIMER 3500

DENSITY: 1.00 ± 0,05 kg/dm³ at 20°C

SOLIDS CONTENT: 30% ±5%

COLOUR: Haze transparent

STANDARD PACKING: PE bottle

SHELF LIFE *: 12 months

SPREADING RATE: 60-100g/m² of the thinned product

APPLICATION: by roller or brush

THINNING: 1:2 with water

DRYING TIME **: 1-2 hours touch

MIN/MAX APPLICATION TEMPERATURE +5°C / +40°C

VISCOSITY (Brookfield SP4, 20 RPM) 200 cPs

PRIMER 036

Anticorrosive primer for building construction and industrial applications.

Extensively fire tested with **CHAR 21** and **CHAR 22** and proved compatible according to **ETAG 018**.

Its alkyd composition provides an easy to apply coating with good wetting and spreading, while its phenolic modification provides adhesion and saponification resistance on both electrolytic zinc and hot dip zinc and a higher chemical resistance.

ZincPhosphate and proper fillers provide anticorrosive properties with a lead-free and chromate free composition. A combination of lower price, simple application and quick drying provides a cost effective solution for the most common architectural applications of intumescent systems, particularly indoors.

EPOSOL PRIMER 100

Epoxy two-pack anticorrosive primer for steel, stainless steel, aluminium and light alloys.

Fire tested and proved compatible with **CHAR 21** and **CHAR 22** according to **ETAG 018**.

Zinc Phosphate and the high chemical resistance of the epoxy binder provide high anticorrosion performance in heavy duty application with a lead-free and chromate-free composition.

The two reactive components will be mixed together at the stoichiometric ratio and, after thorough stirring, applied before pot life expires. Do not attempt to extend application time by thinning after pot life ends, residue must be discarded.

The intumescent paint or other top layer must be applied within 7 days.

PRIMER 3500

Waterborne acrylic primer with ultrafine particle size to provide deep substrate impregnation. Designed for porous substrates and resistance to alkalinity, **PRIMER 3500** improves adhesion of the subsequent paint layer and enhances substrate cohesion of concrete, reinforced concrete, masonry. Saturation of substrate porosity results in lower water absorption during paint application, increasing open time, improving flow and levelling of the paint coat.

Thin as specified and apply the right amount to obtain substrate saturation while avoiding excess. No film should appear on the surface after drying.

Specifically tested in **EN 13381-3** fire tests for perfect performance of **CHAR 21**.

USE AND APPLICATION

Proper substrate preparation is required, including manual or mechanical cleaning and removal of loose particles. Degrease with appropriate solvents or detergents if needed, then allow to dry perfectly. Steel surfaces are normally sandblasted SA2½.

Zinc coated surfaces should be slightly passivated and not too glossy, however excess white zinc oxide powder should be removed. Mineral substrates should be cleaned free of dust.

All products must be accurately stirred and thinned as reported. Application can be performed by spray (air-mix or airless), brush or roller, normally in one single coat.

Clean up tools and equipment with solvent (Primer 036 / Eposol 100) or water (Primer 3500).

For **EPOSOL 100**, cleaning must be absolutely done before product hardens.

Proper environmental conditions must be kept during application and drying.

Disclaimer

Though based on the results of long term tests and experience the information given here is informative only.

We cannot accept any liability for use of this information and the product unless a proper check has been done of the specific application, verified by the end-user.

Accurate preliminary testing and definition of an application protocol and system is highly advisable to obtain the full advantage of this product.

(*) in original packaging and proper environment

(**) @ +20°C and 60 % RH

