PRIMER 036
EPOSOL 100
PRIMER 3500
PRIMER 4500

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, **PRIMER 4500** completes the specific system for drywall. All are fire tested with our intumescent coatings.

PRIMER 036 is a quick drying, one-pack phenolic alkyd primer. Anti-corrosive properties and good adhesion to steel and zinc coated steel make it a comfortable and cost effective solution for the most common exposure conditions for intumescent coatings.

EPOSOL 100 is a 2-pack epoxy primer 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.

PRIMER 4500 is specifically designed to improve stickability of CHAR 21 on drywall in the presence of fire.

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.

EAD 350402-00-1106 (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 tested to prove fire performance with different primers. Families of common primers are given (alkyd, epoxy, ...).

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

SHELF LIFE*: 12 months

SPREADING RATE: 15 m²/L (theoretical)

THINNING: Synthetic thinners (xylene), 5 to 15 %

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

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

VISCOSITY : (Brookfield SP5, 20 RPM) 4000 cPs

FLOW: (Ford cup 4) 4'±30"

EPOSOL PRIMER 100

DENSITY: 1.30 ± 0,05 kg/dm³ at 20°C

SOLIDS CONTENT: 69 % + 1 % w/w

COLOUR: Grey RAL 7000 approx

SHELF LIFE*: 12 months

SPREADING RATE: 10 m²/L (theoretical)

THINNING: With thinners for epoxies, max 5 %

DRYING TIME:** 6 hours (10°C) to 2 hours (30°C)

MIN/MAX APPLICATION TEMPERATURE: +10°C / +40°C

POT LIFE: 6 h (10°C), 4 h (20°C), 3 h (30°C)

PRIMER 3500

DENSITY: 1.00 ± 0,05 kg/dm³ at 20°C

SOLIDS CONTENT: 30 % + 0,5 %

COLOUR: Haze transparent

SHELF LIFE*: 24 months

SPREADING RATE: 50-100 g/m² of the thinned product

THINNING: 1:2 with water

DRYING TIME:** 1-2 hours touch

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

PRIMER 4500

DENSITY: 1.25 ± 0,05 kg/dm³ at 20°C

SOLIDS CONTENT: 29 % + 0,5 %

COLOUR: Transparent

SHELF LIFE*: 12 months

SPREADING RATE: 50-100 g/m² of the thinned product

THINNING: 1:2 with water

DRYING TIME:** 1-2 hours touch

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

(*) in original packaging and proper environment
(**) @ 20°C and 60 % RH

PRIMER 036

Anticorrosive primer, directly fire tested with **CHAR 21** and **CHAR 22**. 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. Zinc Phosphate provides anticorrosive properties with a lead-free and chromate free composition.
A combination of price, simple application and quick drying provides a cost effective solution for the most common architectural applications of intumescent systems.

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 following paint layer must be applied within 7 days.

PRIMER 3500

Waterborne acrylic ultrafine particle primer for porous cementitious substrates, improves substrate cohesion and adhesion of the subsequent paint layer, increases open time, improves 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 **EN 13381-3** fire tested with **CHAR 21**.

PRIMER 4500

Specific primer for drywall, increases open time and improves flow and levelling of the paint coat, increases the stickability of intumescent paint in case of fire. 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 **EN 1364-1** fire tested with **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 sandblasted SA2½ if appropriate. 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 will be normally performed in one single coat. Clean up tools and equipment with solvent (Primer 036/Eposol 100) or water (Primer 3500/4500). Proper environmental conditions must be kept during application and drying.