

Colorama PE1034

INTUPOX

This is a thin film intumescent coating for the fire protection of structural steel to provide fire resistance for periods of 30, 60, 90 or 120 minutes depending on applied film thickness. Complements CDM regulations.

Properties and Areas of Use

- Tough, hard wearing film
- Good chemical resistance
- Excellent water and corrosion resistance.

Technical Coating Data @ 25 °C for mixed material

Finish	Egg-shell
Color Range	White
Solids Volume	85±2 %
Dry Film Thickness Range	500-5000 µm
Theoretical Spreading Rate	0.425 m ² / L @ 2000 microns DFT (loss factors will apply in practice)
Surface Dry	2 h
Recoat Interval	12 hours minimum
Complete Cure	7 days
Pot Life	1 hour
Flash Point	27°C
Shelf Life	12 months (stored in a cool dry place)
Mixing Ratio by Weight	6 Base component 1 Activator Component
VOC	127 g/L

Film Thickness and Spreading Rate:

	Minimum	Maximum	Typical
Film thickness, dry (µm)	500	5000	2000
Film Thickness, wet(µm)	588	5882	2353
Theoretical Spreading Rate (m ² /L)	1.7	0.17	0.425

Suitable Surfaces

- Prior to application of a compatible primer, the steel substrate must be abrasive blast cleaned in accordance with standard ISO 8501-1:1988. Cleanliness Sa 2.5. Roughness 50 to 85 microns Ry5. Coating should occur before degradation of the surface takes place (normally within 4 hours). If oxidation takes place, the steel must be re-prepared. The surface must be dry and free of dust, salts, grease and any other contaminants immediately before coating.

Bare Steel:

Cleanliness: Blast – cleaning to Sa2 1/2 (ISO-8501-1:2007). Power tool cleaning to min. St2 (ISO 8501-1:2007) may be acceptable, subject to exposure conditions.

Shopprimed Steel:

Clean, dry and undamaged approved shopprimer

Coated Surfaces:

Clean, dry and undamaged compatible primer .

Other Surfaces:

For aluminium substrates , thorough washing and sweeping with a nonmetallic blast medium is required.

Application Conditions

Substrate temperature can be 15°C or above for application and during cure and a minimum of 5°C above the dew point. Adequate dry air ventilation is recommended for optimum drying.

Application Information

- Normally applied by airless spray
- Stir thoroughly before use until product is homogeneous
- Pump ratio: minimum 45:1
- Tip size - 31-33 thou (0.79-0.84mm) approximately
- Tip pressure - 3600 psi (25Mpa) approximately
- Tip angle - 30°

Recommended Primers

- PE1002HBST PRIMABUILD - ST
- PE1002GYM PRIMAPOX - GYM
- PE1003 PRIMAPOX Zinc 2K

Recommended Topcoats

- PE1008 EPOXYTOP
- PU1004 URELUX
- APE1000 COCRYPLAST

Cleaning Thinner

Equipment should be cleaned immediately after use with Paint Thinner Colorama TH907EP.

Drying time:

Drying times are affected by air ventilation, temperature, film thickness and number of coats.

Substrate Temp.	10° C	25° C	40° C
Surface Dry	4	2	1
Through Dry	12	8	6
Dry to recoat, minimum	16	12	8

The given data serve as guideline only. The actual drying time differs according to film thickness, ventilation, humidity and underlying paint system.

Typical paint system:

PRIMABUILD – ST	1 x 100 µ
INTUPOX	1 x 2000-5000 µ (Depending on Hp/A Value)
URELUX	1 x 50 µ

Storage:

Keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition. Containers must be kept tightly closed.

Handling:

Handle with care. Stir well before use.

Packing Size:

18 L

Summary Safety Information

- Avoid inhalation of spray mist and skin contact by the use of masks, gloves and other personal protection. Eyes should be cautiously washed with water or proprietary wash, and medical attention obtained. Skin should be thoroughly washed using a cleanser and soap and water.
- Product is flammable
- No sparks or flames
- No smoking

The information given in this data sheet represents test results & practical experience obtained under controlled conditions, and are correct to the best of our knowledge. However, as products are often used under different conditions, we can only guarantee the quality of our product, and reserve the right to change data without further notice.