

Passive Fire Protection

Fire protection of structural elements

INTUMESCENT COATING - FLAMOPAINT W3



TRIA

FLAMOPAINT W3

description

FLAMOPAINT W3 intumescent Basecoat is a water-based, white, thin film intumescent coating for the protection of internal structural steelwork. Resistance to fire up to R90. FLAMOPAINT W3 intumescent paint is solvent free and has one of the lowest VOC contents on the market: <0.5 g / l

substrate preparation and application conditions

FLAMOPAINT W3 should be applied onto a clean, undamaged and dry primed surface. The correct primer is used for galvanised steel. The primer must be applied in accordance with the manufacturer's instructions.

FLAMOPAINT W3 should only be applied when the air and steel temperatures are above 5°C. Relative humidity should be below 80% for successful application. Steel surface temperature should be a minimum of 3°C above the dew point.

Ensure the steel is dry and free from contact with rain or condensation during the application and drying of FLAMOPAINT W3

application

FLAMOPAINT W3 is supplied ready for use and must not be thinned but should be mechanically stirred prior to use.

application equipment

Airless spray equipment

Maximum wet film thickness (WFT) of 1.0 mm in a single spray coat comprising of several quick passes. Two layers can be applied the same day if the first one is dry, the temperature is above 20 ° C and the relative humidity is lower than 70%.

Operating Pressure 2500 – 3000 psi (175 – 210 Kg/ cm²).

Tip Size 17-21 thou.

Fan Angle 20° - 40°.

Hose diameter 10 mm (3/8") internal diameter.

Hose length Max. 60 metres.

Brush/roller application

For brush application use a "laying on" technique to avoid heavy brush marking. A short piled roller will produce a light textured finish. Maximum wet film per coat when applied using a brush or roller is 0.6 mm.

PROPERTY (TYPICAL VALUES)	
Composition	Water-based
Color	White
Specific Gravity	1.38 ± 0.02 (kg/l)
Volume Solids	70 % ± 3 %
VOC	< 0.5 g/litro
Viscosity	300-350 Poise (Spindle 6 mm to 20 rpm)
Theoretical Coverage	503 g/m ² to 250 microns DTF
Shelf life	9 months in original unopened container
Storage	Between 5 – 35 °C dry warehouse
Packaging	Drum of 25 Kg

DRYING TIMES (DRYING WITH LOW VENTILATED CONDITIONS)				
Humidity Range	WTF	10°C	20°C	30°C
30 %	0.3 mm	4,50 h.	3,75 h.	2,25 h.
	0.6 mm	6,25 h.	5,25 h.	4,50 h.
	1 mm	9,00 h.	6,00 h.	6,00 h.
50 %	0.3 mm	5,00 h.	4,50 h.	3,00 h.
	0.6 mm	9,00 h.	6,25 h.	3,00 h.
	1 mm	12,00 h.	9,00 h.	7,50 h.

DRYING TIMES (DRYING WITH WELL VENTILATED CONDITIONS)				
Humidity Range	WTF	10°C	20°C	30°C
30 %	0.3 mm	2,25 h.	1,50 h.	1,50 h.
	0.6 mm	3,75 h.	3,00 h.	2,25 h.
	1 mm	4,50 h.	3,75 h.	3,00 h.
50 %	0.3 mm	3,00 h.	2,25 h.	1,50 h.
	0.6 mm	4,50 h.	3,75 h.	3,00 h.
	1 mm	6,00 h.	4,50 h.	3,75 h.

information

TRIA has Technical Representatives who provide assistance in the selection and specification of TRIA products. For more information, specification and technical advice please call our Head Office geral@tria.pt. Guarantee / Warranty: TRIA products are manufactured to rigid standards of quality. Any product which has been applied in accordance with TRIA's written instructions and in any application

recommended by TRIA, but which is proved to be defective in product quality, will be replaced free of charge. No liability can be accepted for the information provided in this document although it is published in good faith and believed to be correct. TRIA reserves the right to alter product specifications without prior notice, in line with our Company policy of continuous development and improvement.

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