PERLITA Y VERMICULITA

Technical Data Sheet

FIREFILM A6

Water based intumescent coating

Firefilm A6 Intumescent Basecoat is a water- based, white, thin film intumescent coating for the protection of internal structural steelwork. Resistance to fire up to R90. Firefilm A6 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

- Firefilm A6 should be applied onto a clean, undamaged and dry primed surface.
- The correct primer is used for galvanised steel (Consult to Technical Department).
- The primer must be applied in accordance with the manufacturer's instructions.
- Firefilm A6 should only be applied when the air and steel temperatures are between 5°C-40°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 Firefilm A6.

Application

Firefilm A6 is supplied ready for use and must not be thinned but should be mechanically stirred prior to use.

Aplication Equipment

Airless spray equipment:
Maximum wet film thickness (WFT) of 1000 microns 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/ cm^2).
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 600 microns.

Property (Typical Values)

Composition	Water-based
Color	White
Specific Gravity	1.38 ± 0.02 (kg/l)
Volume Solids	69 % ± 3 %
VOC	0.5 g/litro
Viscosity	300-350 Poise (Spindle 6 mm to 20 rpm)
Theoretical Coverage	1000 g/m^2 to 500 microns DTF
Shelf life	9 months in original unopened container
Storage	Between 5°C – 35 °C dry warehouse
Packaging	Drum of 25 Kg

Drying Times

WFT (Wet Film Thickness)	10°C	20°C	30°C
200 microns	3 h	2 h	1 h
500 microns	4 h	3 h	2 h
1000 microns	6 h	4 h	3 h

These are times for a typical mid-range humidity (50%) and good air flow. Higher humidity, poor airflow or overnight condensation will all lengthen these times.
Overcoat time consult with Technical Department. Do not over coat if the surface is not touch dry. Check web-flange joints.

Top coats requirements

Once DFT's have been achieved as specified, a compatible top coat can be applied. Ensure the Firefilm A6 is completely dry before applying top coat.

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