

Technical Data Sheet

FIREFILM A7

Water based intumescent coating



Firefilm A7 Intumescent Basecoat is a water-based, approved under BS standard for the protection of internal structural steelwork against fire. Resistance to fire up to R120. Firefilm A7 intumescent paint has one of the lowest VOC contents on the market.

Substrate Preparation and Application Conditions

- Firefilm A7 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 A7 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 A7.
- With rich Zinc epoxy primer, consult to Technical Department.

Application

Firefilm A7 is supplied ready for use and must not be thinned but should be mechanically stirred prior to use. See Firefilm A7 safety data sheet prior to the application.

Application Equipment

Airless spray equipment:

Maximum wet film thickness (WFT) recommended is 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 totally 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: 19-21 thou.

Fan Angle: 20° -40°.

Hose diameter: 10 mm (3/8") -.

It is recommended to remove the filter from the machine before application.

Brush/roller application:

Brush is used for small repairing application using a "laying on" technique to avoid heavy brush marking. A short pile roller will produce a light textured finish.

Property (Typical Values)

Composition	Water-based
Color	White
Density	1.38 ± 0.02 (kg/l)
Volume Solids	69 % ± 3 %
VOC	0.5 g/l
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 approx.
Cleaner/Thinner	Water

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. Check web-flange joints.

Top coats requirements

Once DFT's have been achieved as specified (only intumescent pain thickness), a compatible top coat can be applied (Consult with Technical Department). Ensure the Firefilm A7 is completely dry before applying top coat.