

SELECTION & SPECIFICATION DATA

Generic Type	Water-based, Intumescent Fireproofing Coating
Description	Firefilm A5 is a water-based, white, thin film intumescent coating for the protection of internal structural steelwork. It is designed to provide up to 60 minutes of fire resistance. The recommended use for this product is fireproofing of interior steel beams, columns, tubes, and pipes.
Features	<ul style="list-style-type: none">• Very low VOC• Designed for on-site use• Meets BS476 Part 21: 1987 Certification• Meets C1 and C2 Environments Building Classification (ISO 12944)
Color	White
Finish	Smooth Matte
Primer	Firefilm A5 must be applied over a compatible primer. Contact Perlita y Vermiculita Technical Service for a complete list of approved primers. If the steel has already been coated with an existing primer, refer to Perlita y Vermiculita Technical Service for advice before applying.
Wet Film Thickness	Firefilm A5 may be applied up to a maximum wet film thickness (WFT) of 1.0 mm (39.4 mils) in a single spray coat comprising of several quick passes. Achieving maximum loading will depend on site conditions. The vast majority of 60 minute loadings can be applied in a single application.
Dry Film Thickness	0.5 - 1.0 mm (19.69 - 39.37 mils) per coat
Solids Content	By Volume 70% +/- 3%
Theoretical Coverage Rate	27.6 m ² /l at 25 microns (1123 ft ² /gal at 1.0 mils) 1.4 m ² /l at 492 microns (57 ft ² /gal at 19.7 mils) 0.7 m ² /l at 984 microns (29 ft ² /gal at 39.4 mils) Allow for loss in mixing and application.
VOC Values	As Supplied 6 g/l (0.05 lbs/gal)
Topcoats	For interior concealed applications, topcoats are optional. For interior public areas, Perlita y Vermiculita approved topcoats are required. Firefilm A5 must be applied to the specified DFT and be dry before applying a topcoat. Contact Perlita y Vermiculita Technical Service for a complete list of approved topcoats.
Specific Gravity	1.38 ±3%
Viscosity	150-200 Poise (Spindle 6 @ 20 rpm)

SUBSTRATES & SURFACE PREPARATION

General	<p>All surfaces must be primed with compatible primer and be clean, dry and free of oil, grease, loose mill scale, dirt, dust or other materials which would impair the bond of material to the substrate. Surface preparation must meet the requirements of the primer being used.</p> <p>Firefilm A5 should not be applied directly to galvanised surfaces or zinc rich primer. Contact Perlita y Vermiculita Technical Service for a complete list of approved primers.</p>
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SUBSTRATES & SURFACE PREPARATION

Steel | Ensure the steel is dry and free from contact with rain or condensation during the application and drying of Firefilm A5.

MIXING & THINNING

Mixing | Should be mechanically stirred prior to use.

Thinning | Firefilm A5 is supplied ready for use and must not be thinned.

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

General | Spray equipment can be cleaned using water only.

Airless Spray | Airless spray equipment is recommended and should match these guidelines:
 Operating Pressure: 2500-3000 psi (175-210 kg/cm²)
 Tip Size: 17-21 thou (0.017"-0.021")
 Fan Angle: 20-40°
 Hose Diameter: 10 mm (3/8") (internal diameter)
 Hose Length: Max. 60 metres (196.9 feet)
 Filters: In-line filters not recommended

APPLICATION PROCEDURES

General | Firefilm A5 is recommended for application and use on dry protected structural steel only. If the film is allowed to get wet, it is likely to be damaged - blistering and wrinkling may occur.

Airless Spray | Firefilm A5 may be applied up to a maximum wet film thickness (WFT) of 1.0 mm (39.4 mils) in a single spray coat comprising of several quick passes. Achieving maximum loadings will depend on site conditions.
 The vast majority of 60 minute loadings can be applied in one coat.

Brush & Roller | Use a "laying on" technique to avoid heavy brush marking.
 Maximum wet film per coat when applied using a brush or roller is 0.6 mm (23.6 mils).
 During application, measure the wet film thickness frequently with a WFT gauge to ensure the correct thickness is being applied.
 In the event of over or under applications, adjustments to the loading rates of subsequent coats will be required.
 A nap roller will produce a light textured finish.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	5°C (41°F)	5°C (41°F)	5°C (41°F)	0%
Maximum	35°C (95°F)	35°C (95°F)	35°C (95°F)	75%

Relative humidity should be below 80% for successful application. Steel surface temperature should be a minimum of 3 °C (5 °F) above the dew point.

CURING SCHEDULE

Surface Temp.	Dry to Recoat
10°C (50°F)	6 Hours
20°C (68°F)	4 Hours
30°C (86°F)	3 Hours

Based on 1mm (39.4 mils) wet film thickness per coat.

These are times for a typical mid-range humidity and good air flow. Higher humidity, poor airflow or overnight condensation will all lengthen these times.

Surface must be touch dry prior to recoating. Check web-flange joints.

CLEANUP & SAFETY

Safety	Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal workmanlike safety precautions. Use adequate ventilation. Keep container closed when not in use.
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MAINTENANCE

General	If coating becomes damaged, rebuild required thickness by spray or trowel. When dry, smooth and finish with approved topcoat to match. Damaged areas must be abraded back to a firm edge by sanding or scraping. The topcoat should be abraded back by 1" (25.4 mm) from the damaged area. The surface must be clean and dry before re-applying. The coating shall then be built back to the original thickness, allowed to dry, then overcoated with the specified topcoat or system.
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PACKAGING, HANDLING & STORAGE

Shelf Life	6 months @ 20-25 °C (68-77 °F) when stored as recommended in original unopened container
Shipping Weight (Approximate)	26.69 kg (58.8 lbs)
Storage	Store in secure, dry warehouse conditions between +5 °C (41 °F) to +35 °C (95 °F). Protect from freezing.
Packaging	25 kg (55 lbs) drum