



# Steelguard FM 2570

## Thin film intumescent coating

### Product Data/ Application Instructions

- **Fast drying solvent based thin film intumescent**
- **Up to 2 hours fire protection of structural steel**
- **Rapid drying providing reduced times to handling**
- **EPA compliant (1998)**
- **Tested to international fire test standards including BS 476 Part 21**
- **Works or site application**
- **No sealer coat required for dry internal C1 service conditions (ISO 12944)**

#### Typical Uses

Intumescent fire protection for internal and external structural steel. Fast drying material intended for off-site application using manual airless spray equipment. Allows for rapid job completion, early resistance to mechanical damage and faster throughput of coated steelwork. Also suitable for on-site application.

#### Overcoating

The standard recommended topcoat for Steelguard FM 2570 is Steelguard 2458.  
For service in dry INTERNAL C1 conditions there is no requirement for a topcoat. Where a coloured finish is required Steelguard FM 2570 should be topcoated with Steelguard 2458, at a recommended dft of 50 microns for C1 environments.  
For service in EXTERNAL conditions or areas other than dry internal C1 conditions, Steelguard FM 2570 must be sealed with an approved topcoat. Consult your Ameron representative for recommended topcoat dft requirements.  
Steelguard FM 2570 must be protected from pooling water, hot humid environments or immersed conditions at all times.

#### Physical Data

Appearance when dry .....	matt				
Colour .....	white				
Components .....	1				
Volume solids .....	67±3%				
VOC .....	400 g/l				
Curing mechanism .....	solvent release				
Loading requirements.....	In order to establish the dft required to give the specified fire resistance, reference should be made to the products Hp/A (A/V) values or limiting temperature tables. Contact your Ameron representative for full details.				
Dry film thickness (µm) .....	250	400	500	700	1000
Wet film thickness (µm) .....	373	597	746	1045	1493
Theoretical coverage (m <sup>2</sup> /l) ....	2.68	1.68	1.34	0.96	0.67
(wet film thicknesses quoted are theoretical for one airless spray coat)					
Specific gravity .....	1.27 kg/l				
Flashpoint					
(closed cup) .....	°C				°F
Steelguard FM 2570 .....	26				79
Amercoat 12 .....	24				75

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## Surface Preparation

Applied over a blasted and suitably primed steel substrate. The surface must be dry and free of dust, salts, grease and other contaminants immediately before coating. The primer used should be applied in accordance with the specific technical data sheet instructions, and must be approved by Ameron to ensure compatibility with the Steelguard FM 2570. The total dry film thickness of primer coats should not exceed 150 microns. The surface must be dry and free of dust, salts, grease and other contaminants immediately before coating.

Stir thoroughly before use until the product is uniform throughout. A power mixer should be used.

## Application Methods

**AIRLESS SPRAY** - Use a pump capable of producing a minimum pressure at the tip of 2800 psi (200 kg/cm<sup>2</sup>). Tip size 19-25 thou' (0.48-0.63mm).  
**BRUSH** – Suitable only for small areas such as repairs. Apply evenly using a clean, well-loaded brush at up to 300microns dft per coat. Allow at least 4 hours drying at 20°C/68°F between coats.

## Application Data

Substrate .....	primed steel
Application methods .....	airless spray, brush (small areas only)
Potlife (at 20°C/68°F) .....	not applicable
Environmental Conditions	
Relative humidity: .....	up to 80%
Surface temperature: .....	minimum 5°C/41°F
.....	maximum 30°C/86°F

The surface temperature must also be at least 3°C/5°F above dew point.

## Drying Characteristics

Drying times will vary considerably depending on ambient conditions, Hp/A (A/V) of section being coated and applied film thickness. As a guide, at 20°C/68°F the applied coating will be touch dry in approximately 1 hour, recoatable in approximately 4 hours and hard dry after 48 hours.

Thinner .....	not normally necessary
Cleaner .....	Amercoat 12

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## Application Procedure:

1. Flush equipment with recommended cleaner before use.
2. Stir to an even consistency with a power mixer.
3. Thinning is normally not required for airless spray.
4. For airless spray apply a wet even coat in parallel passes. Overlap each pass 50% to avoid bare areas, pinholes or holidays.
5. Give special attention to welds, rough spots, sharp edges and corners, rivets, bolts, etc.
6. Application at 600 µm wet film thickness will normally provide 400 µm dry film.
7. Check thickness of dry coating with a non-destructive dry film thickness gauge, such as Mikrotest or Elcometer. If less than specified thickness, apply additional material as needed.
8. Small damaged or bare areas and random pinholes or holidays can be touched up by brush. Repair larger areas either by spray or brush with Steelguard FM 2570.
9. In confined areas ventilate with clean air during application and drying until all solvents are removed. Temperature and humidity of ventilating air must be such that moisture condensation will not form on surface.
10. Clean all equipment with recommended cleaner immediately after use or at least at the end of each working day or shift.

**Before using the product, read the label on the can and consult the material safety data sheet.**

## Shipping Data

Pack size .....	20 litres
Shipping weight .....	approx. 27 kg (20 l)
Shelf life .....	12 months when stored indoors in unopened, original containers at 5 to 30°C (41 to 86°F).

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## **Safety**

Since improper use and handling can be hazardous to health and cause of fire or explosion, safety precautions included with Product Data/Application Instruction and Material Safety Data Sheet must be observed during all storage, handling, use and drying periods.

## **Warranty**

Ameron warrants its products to be free from defects in material and workmanship. Ameron's sole obligations and Buyer's exclusive remedy in connection with the products shall be limited, at Ameron's option, to either replacement of products not conforming this warranty or credit to Buyer's account in the invoiced amount of the non-conforming products. Any claim under this warranty must be made by Buyer to Ameron in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify Ameron of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

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To avoid any confusion that may arise through translation into other languages, the English version of the Product Data/Application Instructions will be the governing literature and must be referred to in case of deviations with product literature in other languages.

## **Condition of Sale**

All our transactions are subject to our Terms and Conditions of Sale.