

**Selection & Specification Data**

**Generic Type** A single pack, solvent-based decorative, intumescent coating for fire protection of structural steel.

**Description** FIREFILM S3 is designed to fireproof interior steelwork. The recommended use for this product is fireproofing of steel beams, columns, tubes and pipes.

- Features**
- Decorative Finish – Gives a slight orange-peel decorative finish. Compatible topcoats available in a wide range of colors.
  - Durable finish – Provides a hard dust free surface resistant to normal wear
  - Thin film coating – Offers an economical solution to traditional fireproofing
  - VOC compliant to most areas

**Primers** FIREFILM S3 should be applied over a compatible primer. A number of primers have been tested as compatible. Consult your local representative for specific recommendations.

If the steel has already been coated with another primer, refer to Carboline Technical Service for advice before applying the FIREFILM S3. It should not be applied over Chlorinated rubber or Bitumen type primers. Surface preparation should be carried out in accordance with the application instructions for the selected primers.

**Selection & Specification Data (cont.)**

**Topcoats** While topcoating is not mandatory, it can be topcoated once the basecoat has been applied to the specified DFT and is fully dry.

Any number of finishes may be selected based upon the need. Consult your local representative for details.

**Dry Film Thickness** The dry film thickness required will normally depend on the specific fire rating and the W/D factor of the steel sections to be protected. The thickness can be found under the relevant design. For sections not listed, contact Carboline Technical Service.

**Limitations** Not recommended for steelwork subject to continuous surface temperatures over 140°F (60°C) in normal use.

**Physical Data (Typical Values)**

Solids by Mass	75%
Volume Solids	67%
Durometer Hardness	Shore D: 65 - 70 (fully cured) Shore D: 25 (for topcoating)
Abrasion Index	170 @1000 cycles
Cohesion/Adhesion	12,456 psf (597 kPa)
Compressive Strength	2236 psf (107 kPa) @10% deformation
Impact Resistance	88 in-lbs @65 mils 104 in-lbs @120 mils
W.P.G.	11.27 lbs.
V.O.C. (EPA Method 24)	2.82 lbs./gallon (338 g/l)
Flash Point	165°F (74°C) (open cup)

# FIREFILM® S3

## Approvals

FIREFILM S3 has been tested in accordance with ASTM E-119.

### Surface Burning Characteristics

FIREFILM S3 has been tested to ASTM E84 for surface burning characteristics and has the following results.

Flame Spread 10  
Smoke Development 10

This product should be applied in accordance with the appropriate design.

## Packaging, Handling & Storage

Shipping Weight (Approximate)	Weight per gallon is 12 lbs. Weight per 5 gallons is 60. lbs. Weight per truckload is 45,000 lbs.
Storage (General)	Store indoors in a dry environment.
Storage Temperature	32°F (0°C) – 105°F (40°C)
Shelf Life	Min. 12 months

**\*Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.**



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