

Selection & Specification Data

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

Description FIREFILM SE basecoat is designed to fireproof the interior and exterior steelwork for up to 2 hours fire rating, depending on the design. The recommended use for this product is fireproofing of steel beams, columns, tubes and pipes.

- Features**
- U.L.I. Listed - Designs for many steel sections, to provide up to a 2 hour fire rating
 - Decorative Finish – Gives a smooth decorative finish. Compatible topcoats available in a wide range of colors.
 - Durable finish – Provides a hard dust free surface resistant to normal wear
 - UL Exterior Rated – can be permanently exposed to weather with the appropriate topcoat
 - Thin film coating – Offers an economical solution to traditional fireproofing
 - UL 1709 rated for 2 hours
 - VOC compliant
 - Easy repair – If damaged it can be easily repaired with “S” Filler

Primers FIREFILM SE Basecoat should be applied over a compatible primer. A number of primers have been tested as compatible. Consult Acceptable Primers List.

If the steel has already been coated with another primer, refer to Carboline Technical Service for advice before applying the FIREFILM SE. 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 Once the basecoat has been applied to the specified DFT and is fully dry, it can be topcoated.
Consult Acceptable Topcoat List.

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.
Typical DFT range is between 30-340 mils.

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

Physical Data (Typical Values)

Color	Pale green
Specific Gravity	1.38
Volume Solids	67%
Durometer Hardness	Shore D: 70 (fully cured) Shore D: 40 (for topcoating)
W.P.G.	11.40 lbs.
V.O.C. (EPA Method 24)	2.44 lbs./gallon
Film Build (Spray)	40 mils (wet), 27 mils (dry)
Film Build (Brush)	15 mils (wet), 10 mils (dry)
Flash Point	86°F
Drying Time (between coats)	24 hours at 50°F

Test reports and additional data available upon written request.

FIREFILM SE®

Approvals

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

<u>Design Number</u>	<u>(ULI)</u>
XR629	UL 1709
X697	Wide flange columns
X698	Tube columns
X699	Pipe columns
N625	Restrained and unrestrained Beams
D793	Beams (Protected Deck)
D959	Beams (Unprotected Deck)

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

Classified for exterior use by U.L.I.

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. 18 months

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



350 Hanley Industrial Court, St. Louis, MO 63144-1599
314/644-1000 314/644-4617 (fax) www.carboline.com

An **RPM** Company

January 2008 replaces September 2006

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Carboline® and Firefilm® are registered trademarks of Carboline Company.