product data



- **Generic** FIREFILM A3 is a water-based **Type** intumescent coating. During a fire, it expands to form a meringue-like insulating ash.
- **Description** FIREFILM A3 is a decorative, thin-film fire-resistive coating system for structural steel at interior locations in buildings.

Features

- U.L.I Listed Designs for many steel sections, to provide up to a 3 hour fire rating.
 - Decorative Finish Gives a smooth decorative finish.
 - Dust free surface.
 - Durable finish Provides a hard, impact and abrasion resistant surface.
 - Thin film coating space saving smaller column footprints.
 - Low VOC content.
- **Primers** Apply FIREFILM A3 only to clean and primed steel surfaces. Use only compatible primers as approved by Carboline. Refer to Acceptical Primers List. Follow primer manufacturer instructions.
- Application Refer to FIREFILM A3 Application Guide for complete instructions.

Selection & Specification Data (con' t)

FIREFILM[®] A3

Limitations Not intended for exterior applications. Protect from freezing.

Physical Data

carboline

VOC, ASTM D3960	0.17 lbs./gallon (20 g/L)
Density	11.9 lb/gal (1.42 g/cc)
Solids by Volume	65 +/- 2 %
Solids by Weight	72%
рН	7.4
Durometer Hardness	Durometer D 72
Compressive Strength, ASTM E761	109,008 psf (5.2 MPa) @ 10% deformation
Dry Weight	0.38 lb/ft ² (1.87 kg/m ²) at 42 mil (1.1 mm) dry
Adhesion / Cohesion, ASTM E736	18,000 psf (862 kPa)
Thickness range, per fire tests	16 – 322 mil (0.4 – 8.2 mm) dry
Theoretical coverage	5213 ft ² per pail @ 1mil DFT 484 m ² per pail @ 1mil (0.025 mm) DFT
Application rate, maximum	45 mil (1.14 mm) wet film thickness per coat, maximum
Packaging rate	5 gal (18.9L) per pail

Test reports and additional data available upon written request. These are laboratory results and not intended for specification purposes.

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A/D FIREFILM III is listed and certified by UL.

Design Numbers

Approvals

FIREFILM[®] A3

Wide Flange Columns -UL: X685, X686, X688, X690, X692, X693

HSS Columns -UL: X687, X689, X691, X694, X695, X696

Beams / Floors -UL: D955, D956

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

Maintenance

No maintenance is required. If coating becomes damaged, rebuild required thinness by spray or brush. Small areas can be filled with trowel. When dry, smooth and finish with appropriate finish to match.

Packaging, Handling & Storage

Shipping Weight	62 lbs.	
Storage (General)	FIREFILM A3 has limited freeze/thaw stability. Multiple freeze/thaws will render FIREFILM A3 unusable.	
Storage Temperature	Above 50°F (10°C)	
Shelf Life	6 months from date of manufacture*	

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



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