

PRODUCT NAME

A/D FIREFILM III

PRODUCT DESCRIPTION

A/D FIREFILM III is a decorative, thin-film fire-resistive coating system for structural steel at interior locations in buildings. During a fire, it expands to form a meringue-like insulating ash that protects the steel from fire.

A/D COLORCOAT low VOC silicone alkyd is the required topcoat. It is available in most colors in gloss and semi-gloss finishes.

FEATURES

- UL, ULC, ITS and FM Listed – Designs for many steel sections, to provide up to a 3 hour fire rating.
- Decorative Finish – Gives a smooth decorative finish. A/D COLORCOAT topcoat available in a wide range of colors.
- Dust free surface.
- Durable finish – Provides a hard, impact and abrasion resistant surface.
- A/D COLORCOAT topcoat finishes smooth to slight orange peel, gloss or semi-gloss.
- Thin film coating – space saving smaller column footprints.
- Low VOC content.

PRIMERS

Apply A/D FIREFILM III only to clean and primed steel surfaces. Use only compatible primers as approved by A/D. Refer to Approved Primers List. Follow primer manufacturer instructions.

APPLICATION

Refer to A/D FIREFILM III Application Guide for complete instructions.

DRY FILM THICKNESS

Refer to the A/D FIREFILM III fire test design information to determine the dry film thickness required for the size and shape of steel element to be protected and for the required fire resistance rating.

LIMITATIONS

Not intended for exterior applications. Protect from freezing.

Physical Characteristic

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%
pH	7.4
Durometer Hardness	Durometer D72
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.

APPROVALS

A/D FIREFILM III is listed and certified by UL, ULC, ITS and FM. The following fire test designs were published at the time of this writing.

Design Numbers

Wide Flange Columns-

UL: X639, X640, X641, X642, X669, X670

ITS: AD/CA 180-01, -02, -03

ULC: Z608, Z609, Z610, Z612, Z626, Z627

HSS Columns-

UL: X644, X642, X645, X671, X672, X673

ITS: AD/CA 120-02, -04, 90-02

ULC: Z616, Z611, Z617, Z628, Z629, Z630

Beams / Floors-

UL: D941

ITS: AD/FCA 120-01

ULC: F906, F912

Contact A/D for a current list of fire rated designs.

MAINTENANCE

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

PACKAGING, HANDLING AND STORAGE

Shipping Weight	62 lbs.
Storage (General)	Freezing will render A/D FIREFILM III unusable. Check freeze-watch indicators before accepting delivery.
Storage Temperature	Above 50°F (10°C)
Shelf Life	6 months from date of manufacture*

*Shelf Life: when kept at recommended storage conditions and in original unopened containers.

A/D FIRE PROTECTION SYSTEMS

Head Office: 420 Tapscott Rd., Scarborough, Ontario M1B 1Y4

Tel: (800) 263-4087 or (416) 292-2361 Fax: (416) 298-5887

Regional Offices

Western Canada: Tel: (800) 263-4087 or (416) 292-2361, Fax: (416) 298-5887
Capital Region, Quebec and Maritimes: Tel: (800) 914-6506, Fax: (450) 661-8776

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