

SafeCoat® TFI

DESCRIPTION

SafeCoat® TFI is a single component latex, intumescent fire retardant coating ideally suited for exposed interior structural steel where a 2-1/2 hour fire resistance rating is required. It is ideal for interior steel columns, trusses, beams and other exposed structural members. It limits thermal penetration by expanding to many times the original dry film thickness when exposed to heat. This expanded material forms a char which insulates the substrate against heat, and reduces available oxygen to the surface. It provides a 2-1/2 hour fire rating as tested under ASTM E-119-08A, NFPA 251 "Small Scale Test" and CAN/ULC4-S101, "No Load"

USES

- Imparts a 2-1/2 hour fire rating to exposed steel structural members equal or greater in M/D than a 10WF30 Flange Beam
- Provides an aesthetic, thin, decorative finish to comply with architectural designs
- Listed by Guardian Fire Testing Laboratories, Inc, New York, according to the test standards above.
- Guardian is an independent laboratory certified to test and list products under the same accreditation authorities as UL, ULC and Intertek

FEATURES

- Non-toxic contains no asbestos or halogens.
- Fire-resistant It will not burn in liquid or solid state.
- Forms a char under fire conditions, preventing the spread of flames, and slowing the penetration of heat through the substrate
- Excellent adhesion and durability when applied to metal. (manufacturer-approved anti-corrosive primer required.)
- **Easy to use** but will need to be built up to proper thickness, typically over 4 or 5 applications.



Metal coupons (TFI @ 60 mils DFT) before and after burning. Char insulates structural steel to provide a 2-1/2 hour fire rating per the testing indicated on page 2.

PROPERTIES

Coating Type	Latex
Finish	Off-white, flat finish

Color Standard: Off-white

Lator

(Can be overcoated to achieve

desired colour)

Specific Gravity 11.77 lbs/US Gallon or

1.41g/mL

Hardness D76

Solids by Weight 69%

Solids by Volume 57%

Coating VOC 16.006 g/l 0.1336 lbs/USG

Material VOC 9.335 g/l 0.078 lbs/USG

Density 1.405

Specific Gravity 1.405

Dry Time Touch: 30 min. to 1 hour (varies

with temperature and humidity)

Recoat: 1 to 2 hours Full cure: 48 hours

Film Thickness 2-1/2-Hour Rating on 10WF30

Dry: 60 mils DFT/100 mils WFT

Abrasion Resistance

Index to ASTM D4060:90 @ 1000 cycles

@ 60) mils DFT

Coverage 16 ft.2/Gal.

Flash Point No Flash

Storage Limits Keep from freezing (above

50° F, 10°C recommended)

Shelf Life 24 months

Packaging Available in one, five and

fifty-five US gallon quantities