

SafeCoat® Steel

DESCRIPTION

SafeCoat® Steel is a single component latex intumescent fire retardant coating ideally suited for exposed **interior** structural steel where a flame spread and 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.

USES

- Imparts fire rating to exposed steel structural members.
- Provides an aesthetic, thin, decorative finish to comply with architectural designs

FEATURES

- **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. The **PRECIDIUM™ 41-P Waterborne Epoxy Primer** is Quantum's approved anti-corrosive primer. Other approved primers are listed below under surface preparation.
- **Easy to use** but will need to be built up to proper thickness, typically 31-54 mils WFT/20-35 mils DFT per application. (Detailed application is available in application instructions.)

PROPERTIES

Coating Type	Latex
Finish	Off-white, flat finish
Color	Standard: White A suitable top coat may be used to achieve the desired colour, sheen and durability.
Specific Gravity	13.18lbs/US Gallon or 1.58g/mL
Hardness	D65-75
Solids by Weight	77%
Solids by Volume	65%
Coating VOC	2
Bond Strength	660 psi
Dry Time (Touch):	1-2 hours (varies with mil thickness, Temperature and humidity)
Flash Point	No Flash
Storage Limits	Keep from freezing (above 50° F, 10°C recommended)
Shelf Life	12 months
Packaging	Available in one, five and fifty-five US gallon quantities

FLAME SPREAD and FIRE RESISTANCE RATINGS OF LISTED PRODUCT

Test	Rating	Listing Design Number
CAN/ULC S-102-18	Flame Spread Class A (0)	
CAN/ULC S-102-18	Smoke Developed Class A (25)	
UL 263 (2011) CAN/ULC S-101 (2014) ASTM E119 (2018a)	Fire Resistance 30-120 minutes (Contact the manufacturer for mil thicknesses to achieve your required rating which varies depending on the steel member type and size.)	QTS/IF 120-01 Intertek: Listing Section(s): ROOF/CEILING, FLOOR/ CEILING, BEAM & COLUMN ASSEMBLIES. CSI Code(s): 07 81 00 Applied Fireproofing; 07 00 00 Thermal and Moisture Protection; 07 81 23 Intumescent Fireproofing