

PRODUCT DESCRIPTION

ISOLATEK Type WB 4 Intumescent Fire Resistive Material (IFRM), when combined with ISOLATEK Type Topseal®, is a water-based system investigated by Underwriters Laboratories (UL) for exterior applications.

ISOLATEK Type WB 4 gives architects the ability to design using steel that can be decorative and aesthetically pleasing. It can be top coated to match its surroundings and allows steel to be left exposed to view while providing the fire resistance rating.

PRODUCT ADVANTAGES

- Water-based intumescent coating with low VOC's
- The only water-based intumescent coating that is UL classified for exterior use
- Semi smooth architectural finish
- Can be finished with a wide variety of topcoat types and colors
- Quick, easy application and clean up
- Wide range of testing
- Provides up to 4-hour fire resistance ratings in accordance with ANSI/UL 263, ASTM E119 and CAN/ULC-S101

PHYSICAL PERFORMANCE

It is important for fire protection materials to be able to withstand abuse. American Society for Testing and Materials (ASTM) test methods are used to evaluate the performance of intumescent materials when subjected to these various physical forces. ISOLATEK Type WB 4 has been evaluated to meet rigorous industry test standards.

Physical Performance			
Characteristic	ASTM Method	Tested Performance*	
Abrasion Resistance	D4060	0.2300 g/ 1,000 cycles	
Bond Strength	D4541	2,220 kPa (322 psi)	
Durometer Hardness (Shore D)	D2240	81 Shore D	
Impact Resistance	D2794	11 Nm (98 inch-lb)	
Surface Burning	E84	Flame Spread 15 Smoke Developed 0	Class A

* Values represent independent laboratory tests under controlled conditions.

Technical Data	
Color	White
Density	12.0 lb/gal ±0.5
PH Value	7.5 to 8.5
Application Temperature	Min. 10° C (50° F), Max. 38° C (100° F)

FIRE TEST PERFORMANCE

ISOLATEK Type WB 4 has been extensively tested for fire resistance and is rated for up to 4 hours for floor assemblies, beams, and columns.

- Classified by UL in accordance with ANSI/UL 263 (ASTM E119)
- Classified by UL in accordance with CAN/ULC-S101 (ASTM E119)

ISOLATEK Type WB 4 has also been tested for surface burning characteristics in accordance with ASTM E84 and is rated Class A.

Flame Spread15 Smoke Developed0

CODE COMPLIANCES

ISOLATEK Type WB 4 satisfies the requirements of the following:

- IBC® - INTERNATIONAL BUILDING CODE®
- City of Los Angeles (LADBS, Category 1 Material)
- NBC - National Building Code of Canada
- AC23 and AC10 Requirements (UL ER13348-01)

MAJOR SPECIFICATIONS

ISOLATEK Type WB 4 complies with the requirements of the following specifications:

- MasterSpec®, Section 078123 APPLIED FIREPROOFING (AIA)
- MasterFormat® 2014, Section 07 81 00 Applied Fireproofing (CSC,CSI)
- Unified Facilities Guide Specification, UFGS 07 81 00 Spray-Applied Fireproofing (USACE, NAVFAC, AFCEC, NASA)
- Master Construction Specifications, Number 07 81 00 Applied Fireproofing (VA)
- Code of Federal Regulations, Title 40 Protection of the Environment (EPA)
- PBS-P100, Facilities Standards for the Public Buildings Services (GSA)

APPLICATION

- A compatible primer must be applied to the steel substrate. Refer to the Primers for ISOLATEK Type Intumescent Fireproofing Technical Data Sheet.
- ISOLATEK Type WB 4 can be brushed or sprayed, not rolled. It is available in a trowel grade material.
- The applied thickness of ISOLATEK Type WB 4 will depend upon the specified fire rating and size / shape of the steel member to be protected.
- For exterior use, ISOLATEK Type 4 must be sealed with ISOLATEK Type Topseal followed by an approved exterior finish coat to protect against humidity, chemical and damage. Refer to the Topseal and Finish Coat Materials Technical Data Sheets.

Packaging/Storage	
Packaging	18.9 L (5.0 U.S. gal) container
Net Contents	18.9 L / 26.3 kg (5.0 U.S. gal / 58 lbs)
Gross Weight (Approx)	27.6 kg (61 lbs)
Shelf Life	12 months in unopened sealed containers, properly stored.
Storage	Storage Temperature 1° C - 38° C (33° F - 100° F) Must protect from freezing and excessive heat. Store in a dry environment.

The performance data herein reflects Isolatek International's expectations based on tests conducted in accordance with recognized standard methods under controlled conditions. The applicator, general contractor, property owner and/or user MUST read, understand and follow the directions, specifications and/or recommendations set forth in Isolatek International's publications concerning use and application of these products, and should not rely merely on the information contained in this product data sheet. Isolatek International is not responsible for property damage, bodily injuries, consequential damages, or losses of any kind that arise from or are related to the applicator's, general contractor's or property owner's failure to follow the recommendations set forth in Isolatek International publications.

Isolatek International provides passive fireproofing materials under the CAFCO® and FENDOLITE® trademarks throughout the Americas and under the ISOLATEK® trademark throughout the remainder of the world.



GREENTECH THERMAL INSULATION PRODUCTS MANUFACTURING CO. P.O. BOX 3350, UMM AL QUWAIN, UNITED ARAB EMIRATES
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