

PRODUCT DESCRIPTION

ISOLATEK Type Topseal is a water-based two-part high performance epoxy sealer engineered as a water repellent/sealer/top coat for ISOLATEK® Type WB 4 Intumescent Coating System.

PRODUCT ADVANTAGES

- Provides excellent protection against weathering
- Readily accepts numerous finish coats
- Water based epoxy system with low VOC's
- High solids content contributes to fast drying
- Low odor
- Easy application
- Cleans up with water

RECOMMENDED FINISH COATS

The following products are approved for application over ISOLATEK Type Topseal*

- Sherwin Williams Steel Master 9500
 - Sherwin Williams Acrolon 218HS
 - Tnemec Endura-Shield Series 73
 - Tnemec Enduralume Series 1077
 - Tnemec Endura-Shield II Series 1075
- * or other similar topcoats approved by Isolatek International.

FIRE TEST PERFORMANCE

ISOLATEK Type Topseal has also been tested for surface burning characteristics in accordance with ASTM E84 and is rated Class A.
 Flame Spread.....0-15 Smoke Developed.....0

APPLICATION

TEMPERATURE CONDITIONS:

Application Temperature: Apply ISOLATEK Type Topseal when the ambient air temperature is between 10° - 38°C (50° - 100°F). A minimum substrate and ambient temperature of 10°C (50°F) shall be maintained prior to, during and a minimum of 24 hours after application.

APPLICATION EQUIPMENT:

Spray: Graco 1595 or equivalent, capable of maintaining 207 bar (3000 psi) 4.7 LPM (1.25 GPM) with a 60 mesh filter in pump. Recommend 15 m of 10 mm (50' of 3/8") I.D. hose and a maximum of 1.8 m (6') of 6 mm (1/4") I.D. whip hose. Recommend Graco HD Texture Plus Spray Gun Model #241-705 or equivalent with the diffuser tip removed. Recommended tip size is 0.48 mm (0.019") with the diffuser removed.

Brush: Use a soft/medium synthetic bristle brush.

Roller: Use 3/16" smooth finish nap roller.

SURFACE PREPARATION:

ISOLATEK Type WB 4: Surface must be clean and dry to ensure proper adhesion. A minimum of 5 days should be allowed for ISOLATEK Type WB 4 to dry prior to applying ISOLATEK Type Topseal. Alternatively, achieving a minimum Shore D value of 50 is recommended prior to applying ISOLATEK Type Topseal. Increased drying time may be required under conditions of low air flow and/or high humidity.

(Continued on back page)

Technical Data

Color	Off-White
Finish	Gloss
Mixed Density	1.46 g/cc (2.2 lbs per U.S. gal)
Mix Ratio (A:B)	1:2 by volume, 1:2.8 by weight
Wet Film Thickness (WFT)	Total of 0.52 mm (20 mils), minimum, applied in two or more coats
Dry Film Thickness (DFT)	Total of 0.36 mm (14 mils), minimum, applied in two or more coats
Volume Solids v/v%	70 ± 2%
Theoretical Coverage	11.1 m ² per 5.68 L kit at 0.36 mm DFT (120 ft ² per 1.5 U.S. gal kit at 14 mils DFT)
VOC Value (combined)	0.20 lbs./gal (EPA method 24)
Dry Temperature Resistance	Continuous 79°C (175°F) Non-Continuous 93°C (200°F)

Packaging/Storage

Packaging	Two part individual pre-measured containers (Part A and Part B)
Net Contents	Kit: 5.68 L / 7.8 kg (1.5 U.S. gal / 17.25 lbs) Part A: 1.9 L / 2.04 kg (0.5 U.S. gal / 4.5 lbs) Part B: 3.78 L / 5.78 kg (1.00 U.S. gal / 12.75 lbs)
Gross Weight (Approx.)	9.1 Kg (20.0 lbs)
Shelf Life	12 months in unopened sealed containers, properly stored.
Storage	Storage Temperature 4° - 38° C (40° - 100° F). Must protect from freezing and excessive heat. Store in a dry environment.

MIXING & THINNING:

Mixing: ISOLATEK Type Topseal is supplied in 2 component pre-measured kits 5.7 liters (1.5 U.S. gal). Pre-mix Part A and Part B with the paint stick provided to ensure any settled material is completely dispersed.

If crystallization is present in the Topseal Part A component, heat Part A contents to 38°C (100°F) for a minimum of 30 minutes or until crystallization is no longer present. Crystallization is a partial solidification of the liquid with a gritty feel and appearance.

Add all of Part A (clear) into Part B (off-white). Mix thoroughly with a paint style drill mixer for 3 minutes. Immediately add 355 cc (12 ounces) of water and continue to mix for an additional 2 minutes.

Note: Continue to mix until a uniform white color is consistent throughout the mixture.

Ratio: 2 : 1 Ratio by volume (i.e. Part B to A) as supplied

Thinning: 12 ounces of water per 5.68 L (1.5 U.S. gal) kit

Pot Life: 60 minutes

CLEAN UP:

Clean up for all equipment and supplies must be done within a maximum of 10 minutes after the pot life has expired. Materials will cure or set-up in all equipment after that. Recommend adding 225 g (8 oz) of a "citrus" type or "alkaline" type industrial cleaner to a 19 L (5 U.S. gal) pail of clean water. Thoroughly flush all equipment and supplies with a minimum of two 19 L (5 U.S. gal) pails of the cleaning solution followed by minimum of two 19 L (5 U.S. gal) pails of potable water.

CURING SCHEDULE:

A minimum of 5 days should be allowed for Type WB4 to dry prior to applying Type Topseal. A minimum of 24-hours and maximum of 14 days between coats of Type Topseal is required. Type Topseal must be finish coated within 14 days with an approved exterior finish coat.

LIMITATIONS:

Epoxies lose gloss and will discolor and chalk when exposed to sunlight.

ISOLATEK Type Topseal must be finish coated within 14 days. The Topseal/Finish Coat must be maintained throughout the life of the building to preserve the fire resistive rating of the ISOLATEK Type WB 4 Intumescent Coating.

HEALTH & SAFETY:

PRECAUTIONARY STATEMENT

Contains epoxy resin and polyamine curing agent. Avoid overexposure. Ensure ventilation is adequate. Four complete air exchanges per hour until material is dry. Avoid ingestion and contact with skin, eyes and clothing. Eye protection must be worn. Wash hands after using. Keep container closed when not in use. Do not transfer contents to the other containers for storage. **DO NOT TAKE INTERNALLY.**

EMERGENCY AND FIRST AID PROCEDURES

Skin Contact: During use, this product may cause local skin irritation. Avoid contact with skin. Wear rubber or latex type gloves. Wear typical long sleeve work clothing or a "Tyvek" type suit. Wash affected area immediately with soap and water for at least 15 minutes. Remove contaminated clothing. If irritation persists, seek medical attention.

Eye Contact: Wear proper eye protection; at minimum, safety glasses with side shields. Flush eyes with clean water for at least 15 minutes. If irritation persists, seek medical attention.

Inhalation: For confined areas or areas with poor ventilation, use an organic vapors cartridge type respirator. If adverse effects occur, remove to fresh air. If irritation persists, seek medical attention.

Ingestion: If swallowed drink one or two glasses of water to dilute. Do NOT induce vomiting. Consult a physician or Poison Control Center at once.

WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.

Refer to Safety Data Sheet for complete information.

Contact Isolatek International's Technical Service Department at + 1 973.347.1200 for further top coat information.



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+1 973.347.1200
www.isolatek.com | technical@isolatek.com

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