



TECHNICAL DATA SHEET

StucCoat Crack Isolation Membrane

Dry Mix, Polymer-Modified,
Cementitious, Fiber-Reinforced Base Coat
DS996

PRODUCT DESCRIPTION

High-performance, fiber reinforced, dry mix, polymer-modified base coat specifically formulated for use with StucCoat One-Coat Systems.

BASIC USES

StucCoat Crack Isolation Membrane is a base coat for the StucCoat One-Coat System. It may be used to embed StucCoat Standard Mesh over approved substrates.

FEATURES & BENEFITS

FEATURE

- Single component
- Dry polymer-modified
- Smooth consistency
- Vapor permeable

BENEFIT

- Ready to use, just add water
- Excellent durability, adhesion
- Trowels easily thus more production
- Does not allow moisture buildup

PROPERTIES

Working Time: After mixing, the working time of the StucCoat Crack Isolation Membrane mixture is approximately 1 to 1 1/2 hours, depending on ambient weather conditions.

Drying Time: Drying time of the StucCoat Crack Isolation Membrane mixture is dependent on the air temperature and relative humidity. Under average drying conditions [70 F (21 °C), 55% RH], the StucCoat Crack Isolation Membrane mixture will dry in 24 hours. Protect work from rain for at least 24 hours. Being a cementitious product, the StucCoat Crack Isolation Membrane mixture develops full strength in 28 days.

Testing Information: For individual test data on this product's properties, refer to the chart included with this document.

Application Procedure: FOR COMPLETE INSTRUCTIONS, REFER TO THE APPROPRIATE DRYVIT APPLICATION INSTRUCTIONS.

Job Conditions: Air and surface temperatures for application of the StucCoat Crack Isolation Membrane mixture must be at least 40 °F (4 °C) or higher and must remain so for a minimum of 24 hours.

Temporary Protection: Shall be provided at all times until the adhesive, base coat, finish, and installation of permanent flashings, sealants, etc. are completed to protect the wall from inclement weather and other sources of damage.

Acceptable Substrates: StucCoat Plaster Systems

SURFACE PREPARATION

- Surfaces must be above 40 °F (4 °C) and must be clean, dry, structurally sound, and free of efflorescence, grease, oil, form release agents, and curing compounds.
- The substrate shall be flat within 1/4" (6.4 mm) in any 4 ft (1.2 M) radius.

MIXING

Pail Mixing: One 50-lb (22.7-kg) bag of StucCoat Crack Isolation Membrane will produce approximately 5 gal (19 L) of StucCoat Crack Isolation Membrane mixture. Add 6-7 qt (5.7-6.6 L) of clean potable water into a clean plastic container. Add the StucCoat Crack Isolation Membrane slowly while constantly mixing with a "Twister" paddle or equivalent mixing blade, powered by a 1/2 in (12.7 mm) drill, at 500-1200 rpm. **NOTE: A minimum 7 amp drill works best for Portland cement based materials.** Thoroughly mix until uniformly wetted, adjusting consistency with a small amount of water or StucCoat Crack Isolation Membrane. Allow the material to set for 5-10 minutes then mix to break the initial set. Retemper, adding a small amount of water if necessary. Material must be free of lumps before using.

Mortar Mixer: Add 6-7 qt (5.7-6.6 L) of clean potable water for each 50-lb (22.7-L) bag of StucCoat Crack Isolation Membrane into a clean mortar mixer. Add the StucCoat Crack Isolation Membrane while the mixer is running. Let mix 3-5 minutes, shut the mixer off for 5-10 minutes, then run the mixer for another 2-3 minutes to break the set, adding a small amount of water if necessary to adjust workability. The pot life is 1 to 1 1/2 hours to break the initial set depending on weather.

APPLICATION

Crack Isolation Membrane: For the Crack Isolation Membrane application, all insulation board irregularities greater than 1/16 in (1.6 mm) must be sanded flush. Apply the Crack Isolation Membrane to the entire surface of the insulation board. Fully embed the StucCoat reinforcing mesh in the wet Crack Isolation Membrane troweling from the center to the edge of the reinforcing mesh so as to avoid wrinkles. The reinforcing mesh shall be continuous at all corners and lapped or butted in accordance with StucCoat's recommendations. The overall minimum base coat thickness shall be sufficient to fully embed the reinforcing mesh. The recommended method is to apply the base coat in two applications. All areas requiring higher impact resistance shall be detailed on the plans and described in the contract documents. The application shall be in accordance with StucCoat's recommendations.

PACKAGING

The Crack Isolation Membrane is supplied in 50-lb (22.67-kg) bags.

COVERAGE

Approximately 120 ft² (11.1 M²) of surface area per 50-lb (22.7-kg) bag, depending on job conditions, application techniques, etc.

STORAGE

StucCoat Crack Isolation Membrane bags must be protected from moisture and weather. The bags shall be stored off the ground in a cool, dry, location out of direct sunlight. If the StucCoat Crack Isolation Membrane is warm or hot, the pot life of the StucCoat Crack Isolation Membrane mixture will be reduced.

The shelf life is 1 year from the date of manufacture when properly stored in unopened bags.

CAUTIONS & LIMITATIONS

- Avoid applying StucCoat Crack Isolation Membrane in direct sunlight. Always work on the shady side of the wall or protect the area with appropriate shading material.
- Clean, cool, potable water may be added to adjust workability. Do not overwater. Warm water will accelerate the set.
- Mixing paddles and pails must be clean. Contamination from previous mixing will lead to a short pot life.
- Wear protective eyewear and clothing since the product contains cement, which can cause irritation.

CLEAN UP

Clean tools with water while the StucCoat Crack Isolation Membrane mixture is still wet.

TECHNICAL AND FIELD SERVICES

Available upon request.

WARRANTY

A repair or replacement warranty is available on all Dryvit products. Visit <https://www.tremcosealants.com/warranties/> for details.

StucCoat Crack Isolation Membrane Testing

TEST	TEST METHOD	CRITERIA	RESULTS
Surface Burning Characteristics	ASTM E84	ICC and ANSI/EIMA 99-A-2001 Flame Spread <25; Smoke Development <450	Passed
Water Vapor Transmission	ASTM E96, Procedure B	ICC; Vapor Permeable No ANSI/EIMA Criteria	63 Perms
Accelerated Weathering	ASTM G23 (Carbon Arc)	ICC: 2000 hours: No deleterious effects ⁽¹⁾	2000 hours, no deleterious effects ⁽¹⁾
Freeze-Thaw Resistance	ASTM E2485 (formerly EIMA 101.01)	ANSI/EIMA 99-A-2001 60 cycles; No deleterious effects ⁽¹⁾	60 cycles: no deleterious effects ⁽¹⁾
Freeze-Thaw Resistance	ASTM E2485/ICC-ES Proc: ICC ES (AC219*)	No deleterious effects ⁽¹⁾ after 10 cycles	Passed - no deleterious effects ⁽¹⁾ after 10 cycles
Water Resistance	ASTM D2247	ICC and ANSI/EIMA 99-A-2001 14 days, No deleterious effects ⁽¹⁾	14 days; no deleterious effects ⁽¹⁾
Tensile Bond ⁽²⁾	ASTM C297/E2134 (formerly EIMA 101.03)	ICC and ANSI/EIMA 99-A-2001 Minimum 15 psi (104 kPa) - substrate or insulation failure	15 psi (104 kPa)
Water Penetration	ASTM E331	No water penetration beyond the inner-most plane of the wall after 2 hours at 6.24 psf (299 Pa)	Passed
Ignitability	NFPA 286	No ignition at 12.5 kw/M ² at 20 minutes	Passed
Intermediate Multi-Story Fire Test	NFPA 285 (UBC 26-9)	1. Resist flame propagation over the exterior surface 2. Resist vertical spread of flame within combustible core/component of panel from one story to the next 3. Resist lateral vertical spread of flame over the interior surface from one story to the next. 4. Resist lateral spread of flame from the compartment of fire origin to adjacent spaces.	Passed

1. No cracking, checking, rusting, crazing, erosion, blistering, peeling, or delamination when viewed under 5x magnification.

2. Sample consists of 1" EPS adhered to various substrates.

AC219 - Acceptable Criteria for EIFS loss or damage.

Please refer to our website at www.dryvit.com for the most up-to-date Product Data Sheets.

NOTE: All Dryvit Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.

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