



# TECHNICAL DATA SHEET

## GENESIS® DM

Dry Mix, Polymer-Modified, Cementitious,  
Fiber-Reinforced Adhesive and Base Coat  
DS452

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### PRODUCT DESCRIPTION

High-performance, fiber-reinforced, dry mix, polymer-modified, cementitious adhesive and base coat specifically formulated for use with Dryvit systems.



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### BASIC USES

Genesis DM is used to adhere expanded polystyrene insulation board to acceptable substrates and to embed reinforcing mesh as part of the base coat for Dryvit systems. It can also be used to level interior and exterior masonry walls.

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### 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

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### PROPERTIES

**Working Time:** After mixing, the working time of the Genesis DM mixture is approximately 1 to 1 1/2 hours, depending on ambient weather conditions

**Drying Time:** Drying time of the Genesis DM mixture is dependent on the air temperature and relative humidity. Under average drying conditions [70 °F (21 °C), 55% R.H.], the Genesis DM mixture will dry in 24 hours. Protect work from rain for at least 24 hours. Being a cementitious product, the Genesis DM mixture develops full strength in 28 days. When used to bond expanded polystyrene insulation board to an acceptable substrate, a period of at least 24 hours must elapse prior to rasping to allow the Genesis DM mixture to form a positive bond. The installed insulation board should not be disturbed until adequate bond has developed.

**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 Genesis DM mixture must be at 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:

- Exterior grade gypsum sheathing meeting ASTM C 1396 (formerly C 79) requirements for water-resistant core or Type X core
- Exterior sheathing having a water-resistant core with fiberglass mat facers meeting ASTM C 1177
- Exterior fiber reinforced cement or calcium silicate boards
- Unglazed brick, concrete, or masonry
- New or existing cement plaster

- Galvanized expanded metal lath 2.5 or 3.4 lbs/yd<sup>2</sup> (1.4 or 1.8 kg/m<sup>2</sup>) installed over a solid substrate.

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## 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 in (6.4 mm) in any 4 ft (1.2 m) radius.

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## MIXING

**Pail Mixing:** One 50 lb (22.7 kg) bag of Genesis DM will produce approximately 5 gal (19 L) of Genesis DM mixture. Add 6-7 qt (5.7 -6.6 L) of clean potable water into a clean plastic container. Add the Genesis DM 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 Genesis DM. 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 kg) bag of Genesis DM into a clean mortar mixer. Add the Genesis DM while the mixer is running. Let mix 3 to 5 minutes, shut the mixer off for 5-10 minutes, then run mixer for another 2 to 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.

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## APPLICATION

**Adhesive:** For application over sheathing substrates, use a stainless steel notched trowel with notches measuring 3/8 in (9.5 mm) wide, 1/2 in (12.7 mm) deep spaced 1 1/2 in (38 mm) apart. Apply the Genesis DM mixture on the back side of the insulation board and scrape the excess adhesive from between the adhesive beads. The adhesive beads shall be applied so that they run vertically when the insulation board is placed on the wall.

For application over **non-sheathing substrates**, the notched trowel application as described above is acceptable or a ribbon and dab application may be used. With a stainless steel trowel apply a ribbon of the Genesis DM mixture 2 in (51 mm) wide x 3/8 in (9.5 mm) thick around the perimeter of the insulation board. Place eight dabs of the Genesis DM mixture 3/8 in (9.5 mm) thick by 4 in (102 mm) in diameter approximately 8 in (203 mm) on center to the interior area.

**CAUTION:** Do not install the Genesis DM mixture directly on the substrate. Immediately place the insulation board on the substrate, ensuring that no Genesis DM mixture gets into the board joints. Do not allow the Genesis DM mixture to form a skin before positioning the insulation board on the substrate, as it will affect the bond strength.

**Base Coat:** For base coat application, all insulation board irregularities greater than 1/16 in (1.6 mm) must be sanded flush. Apply the base coat to the entire surface of the insulation board. Fully embed the Dryvit reinforcing mesh in the wet base coat 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 Dryvit'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 Dryvit's recommendations.

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## PACKAGING

Base coat is supplied in 50 lb (22.67 kg) bags.

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## COVERAGE

Approximately 55 ft<sup>2</sup> (5.1 m<sup>2</sup>) of surface area per 50 lb (22.7 kg) bag, depending on job conditions, application techniques, etc. This includes adhesive and base coat layers.

For adhesive only, 100 ft<sup>2</sup> (9.3 m<sup>2</sup>); for base coat only, 120 ft<sup>2</sup> (11.1 m<sup>2</sup>).

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## STORAGE

Genesis DM 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 Genesis DM is warm or hot the pot life of the Genesis DM mixture will be reduced.

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

## CAUTIONS & LIMITATIONS

- Avoid applying Genesis 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.
- Genesis DM mixture shall not be used to adhere EPS directly wood-based substrates.
- 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 Genesis DM mixture is still wet.

## TECHNICAL AND FIELD SERVICES

Available on request.

### GENESIS® DM Testing

TEST	TEST METHOD	CRITERIA	RESULTS
Surface Burning Characteristics	ASTM E 84	ICC and ANSI/EIMA 99-A-2001 Flame Spread <25 Smoke Developed <450	Passed
Water Vapor Transmission	ASTM E 96 Procedure B	ICC: Vapor Permeable No ANSI/EIMA Criteria	63 Perms
Accelerated Weathering	ASTM G 23 (Carbon Arc)	ICC: 2000 hours: No deleterious effects <sup>1</sup>	2000 hours: No deleterious effects <sup>1</sup>
Freeze-Thaw Resistance	ASTM E 2485 (formerly EIMA 101.01)	ANSI/EIMA 99-A-2001 60 cycles: No deleterious effects <sup>1</sup>	60 cycles: No deleterious effects <sup>1</sup>
	ASTM E 2485/ICC-ES Proc: ICC ES (AC219*)	No deleterious effects <sup>1</sup> after 10 cycles	Passed – No deleterious effects <sup>1</sup> after 10 cycles
Water Resistance	ASTM D 2247	ICC and ANSI/EIMA 99-A-2001 14 days: No deleterious effects <sup>1</sup>	14 days: No deleterious effects <sup>1</sup>
Tensile Bond <sup>2</sup>	ASTM C 297/E 2134 (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 E 331	No water penetration beyond the inner-most plane of the wall after 2 hours at 6.24 psf (299 Pa)	Passed
Ignitability	NFPA 268	No ignition at 12.5 kw/m <sup>2</sup> 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 – Acceptance Criteria for EIFS loss or damage.

Information contained in this product sheet conforms to the standard detail recommendations and specifications for the installation of Dryvit products as of the date of publication of this document and is presented in good faith. Dryvit assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To ensure that you are using the latest, most complete information, contact Dryvit.

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