

Acrylic-Modified, Fiber-Reinforced Adhesive, Base, Texture and Leveling Coat

Description

Genesis is a fiber-reinforced, 100% acrylic-based product which, when mixed with Portland cement, provides a high-build, exceptionally easy to trowel adhesive, base, texture or leveling coat.

Uses

Genesis is used to adhere expanded polystyrene board (EPS) to an approved substrate and to embed Dryvit Reinforcing Mesh as part of the base coat of Dryvit's systems.

It may also be used to spot mechanical fasteners and as a high-build, crack-resistant, cementitious leveling coat (maximum ¼") to skim rough masonry and to fill small voids in cementitious substrates.

Coverage

Approximately 140 square feet of surface area per 60 lb. pail. This includes adhesive and base coat layers. The coverage for other applications is dependent upon the surface of the substrate and the thickness of the application.

Properties

Working Time – After mixing, the working time of Genesis mixture is 2 to 4 hours, depending on ambient conditions.

Drying Time – The drying time of Genesis mixture is dependent upon the air temperature and relative humidity. Under average drying conditions (70°F, 55% R.H.), protect work from rain for at least 24 hours. Being a cementitious product, Genesis mixture develops a full strength in 28 days.

Water Vapor Transmission

(ASTM E96) – Genesis is permeable to water vapor.

Bond Strength (ASTM C297) – The bond strength of Genesis exceeds the cohesive strength of insulation board.

APPLICATION PROCEDURE

FOR COMPLETE INSTALLATION INSTRUCTIONS, REFER TO APPROPRIATE DRYVIT APPLICATION INSTRUCTIONS.

Job Conditions – Air and surface temperatures for application of Genesis mixture must be 40°F or higher and must remain so for a minimum of 24 hours.

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

Substrate Preparation – Application is to Dryvit-recommended substrates.

Typically, these include exterior grade gypsum sheathing on either steel or wood studs, clean unpainted concrete, concrete block, brick and stucco. Masonry, concrete and brick substrates must be flat within ¼" in any four foot radius.

Surface Preparation – Surfaces must not be below 40°F or painted and must be clean, dry, structurally sound and free of efflorescence, grease, oil, form release agents and curing compounds.

Mixing – Thoroughly pre-mix the Genesis. Into a clean plastic container, pour ½ of the freshly mixed Genesis (30 lbs.). To each half pail of Genesis, add 1 quart of clean potable water and 1/3 of a bag (approximately 30 lbs.) of fresh, lump-free Type I or Type II Portland cement. Add the cement slowly and mix thoroughly. Additional water may be added to the Genesis mixture to achieve a workable consistency. Up to ½ gallon of water per ½ pail of Genesis may be added. **DO NOT OVERWATER THE GENESIS MIXTURE AS THIS WILL DEGRADE THE PERFORMANCE OF THE PRODUCT.** Allow the mixture to set for five (5) minutes. Re-mix and temper by adding a small amount of water to achieve the desired workability.

Application – Using a stainless steel trowel, install a ribbon of Genesis mixture, 2" (51mm) wide by 3/8" (10mm) thick around the entire perimeter of the insulation board. Place eight dabs of Genesis mixture 3/8" (10mm) thick by 4" (102mm) in diameter approximately 8" (204mm) on center to the interior area.

Alternatively, a notch trowel may be used to install a continuous coat of the Genesis mixture on the entire back of the insulation board. The beads shall stand out 3/8" (10mm) from the surface on the insulation board. The 2" (51mm) wide by 3/8" (10mm) thick ribbon must be installed around the entire perimeter of the board. **CAUTION:** Do not install Genesis on the substrate using the notch trowel. Immediately place the insulation board on the substrate and slide into position. Do not allow the Genesis mixture to form a skin before positioning the insulation board on the substrate. Do not allow the Genesis mixture to get into the board joints.

For base coat application, all insulation board irregularities greater than 1/16" (1.5mm) must be sanded flush. Apply the base coat to the entire surface of the insulation board. Fully embed the reinforcing fabric in the wet base coat troweling from the center to the edge of the reinforcing fabric so as to avoid wrinkles. The reinforcing fabric 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 mesh. The recommended method is to apply the base coat in two applications. All areas requiring higher impact performance shall be detailed on the plans. The application shall be installed in accordance with Dryvit's recommendations.

Clean Up – Clean tools with water before Genesis mixture has set.

Storage

Genesis must be stored at 40°F or above in tightly sealed containers out of direct sunlight.

Cautions and Limitations

- Clean potable water may be added to adjust workability. Do not add water until after the cement is thoroughly mixed. Do not overwater.
- Use only Type I or Type II gray or white Portland cement.

Technical and Field Services

Available on request.