



TECHNICAL DATA SHEET

DRYFLEX[®]
Acrylic Co-Polymer, Water-Resistant Base
Coat and Adhesive
DS430

PRODUCT DESCRIPTION

Dryflex is a high percentage acrylic co-polymer material, which is mixed with Portland cement to produce a water-resistant base coat and adhesive. It is white in color before adding cement.

BASIC USES

- The Dryflex mixture is especially suited for areas of anticipated high moisture activity such as below grade, sill and slope applications.
- The Dryflex mixture may be used as an adhesive to attach extruded polystyrene insulation boards for below-grade applications.
- The Dryflex mixture may be used as a hydrostatic water-resistant base coat applied to sheathings, concrete masonry or other approved substrates.

FEATURES & BENEFITS

FEATURE

- Polymer based
- Used as Adhesive and Base Coat
- Vapor permeable
- Free of solvents

BENEFIT

- High Flexural Strength
- Suited for high moisture areas
- Does not allow moisture buildup
- Complies with VOC requirements

PROPERTIES

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

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

Application Procedure: For complete application instructions, refer to the appropriate Dryvit system application instructions.

Job Conditions: Air and surface temperature for application of the Dryflex mixture must be 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, cement plaster, concrete or masonry

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 4 ft (1.2 m) radius.

MIXING

Thoroughly mix the Dryflex material prior to splitting. Into a clean plastic container, pour 1/2 of the freshly mixed Dryflex [22.5 lb (10.21 kg)] material. To each half pail of Dryflex add 1/4 of a bag [approximately 22.5 lb (10.21 kg)] of fresh, lump-free Type I or Type II Portland cement. Add the cement slowly while mixing using 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.** Additional water may be added to the Dryflex mixture to achieve a workable consistency. **DO NOT OVER-WATER THE DRYFLEX MIXTURE AS THIS WILL DEGRADE THE PERFORMANCE OF THE PRODUCT.** Allow the mixture to set a minimum of 5-10 minutes and mix again to break the initial set. Retemper adding a small amount of water to achieve the desired workability.

APPLICATION

Adhesive: Using a stainless steel trowel, apply a full coating of Dryflex mixture at least 1/8 in (3.2 mm) thick to the approved substrate. After application, place the trowel flat on the wet surface of the Dryflex mixture and pull the trowel away to produce stipples on the surface. Immediately press the insulation board into the wet Dryflex and slide into position. Do not allow the Dryflex mixture to form a skin before positioning the insulation board on the substrate. Do not allow the Dryflex mixture to get into the board joints

Base Coat: Using a stainless steel trowel, apply the Dryflex mixture to the surface of the insulation board to a uniform thickness of approximately 3/32 in (2.4 mm). Immediately place the reinforcing mesh against the wet Dryflex mixture. With the curve of the mesh against the wall, trowel from the center to the edges, avoiding wrinkles, until the mesh is fully covered and not visible. 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 (2) passes.

Hydrostatic Water Resistant Coating: Using a stainless steel trowel or proper spray equipment, apply the Dryflex mixture to a uniform thickness of at least 1/8 in (3.2 mm) thick. A second coat may be necessary to seal the substrate.

COVERAGE

Dryflex is available in 45 lb (20 kg) pails; coverage depends on usage, application technique and waste.

- As a water-resistant adhesive, it will yield approximately 80-90 ft² (7.4 – 8.4 m²) per pail.
- As a water-resistant base coat at 3/32 in (2.4 mm) thickness, it will yield approximately 120-135 ft² (11.1-12.5 m²) per pail.
- As a hydrostatic water-resistant coating at 1/8 in (3.2 mm) thickness, it will yield approximately 80-90 ft² (7.4 – 8.4 m²) per pail.

STORAGE

Dryflex must be stored at a minimum of 40 °F (4 °C) and a maximum of 100 °F (38 °C) in tightly sealed containers protected from weather and out of direct sunlight.

The shelf life is 2 years from date of manufacture when properly stored in unopened pails.

CAUTIONS & LIMITATIONS

- Avoid applying Dryflex in direct sunlight. Always work on the shady side of the wall or protect the area with shading material.
- 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.
- Dryflex mixture shall not be used to adhere EPS directly to wood-based substrates.
- Mixing paddles and pails must be clean. Contamination from previous mixing will lead to a short pot life.

CLEAN UP

Clean tools with water while the Dryflex mixture is still wet.

TECHNICAL AND FIELD SERVICES

Available upon request.

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