

SHOP DRAWING REVIEW

REVIEWED
REVIEWED AS NOTED
REVISE AND RESUBMIT



"This review is for the sole purpose of ascertaining conformance with the general design concept for architectural features only, and does not in any way constitute review of the design of engineering elements which form part of the Contract Documents prepared by others. This review shall not mean that the Architect approves the detail design inherent in the shop drawings. This responsibility shall remain with the Contractor submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawings or of his responsibility for meeting all requirements of the Contract Documents. The Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to fabrication processes, or to techniques of construction and installation and for co-ordination for the work of all trades."

By: Bryan Bonell Date: Sept. 17, 2019
HOBIN ARCHITECTURE INCORPORATED

BACKSTOP™ NT - Texture

DSC453

A high performance, non-cementitious water-resistive membrane and air barrier

Description

Backstop NT - Texture is a flexible, polymer-based, non-cementitious, water-resistive barrier, that when properly installed prevents water penetration and eliminates air infiltration.

Uses

This data sheet provides information on Backstop NT - Texture when being used in conjunction with Dryvit EIF systems. When considering Backstop NT for use behind alternate claddings please refer to DSC806.

Backstop NT used with AquaFlash and AquaFlash Mesh, provides an effective water-resistive protective membrane for exterior rated sheathings and other approved substrates. (See Approved Substrates.)

Benefits

Backstop NT - Texture is used straight out of the pail and can be applied by roller, trowel, or spray and backrolled. The coating dries quickly and serves as an excellent substrate for adhesively attaching EPS.

Coverage

Coverage may vary slightly, depending on application method and substrate. **Minimum 2 coats required over CMU and concrete.** Please refer to chart included in this document.

Properties

Working Time - Backstop NT - Texture is a non-cementitious material, providing infinite working time. The product will not set-up in the bucket.

Drying Time – The drying time of Backstop NT - Texture is dependent upon the air temperature, wind conditions and relative humidity. Under average drying conditions [21 °C (70 °F), 55% R.H.], Backstop NT - Texture

will be dry to the touch within 2 hours and cured in 6 hours.

Performance Requirements

Backstop NT - Texture shall meet the following performance criteria:

Water Vapour Transmission: (ASTM E 96) - Vapour permeable. 7 Perms.

Flexibility: (ASTM D 522) No cracking at 2 mm diameter.

Tensile Bond: (ASTM C 297) – Substrates: Minimum 131 kPa (19 psi).
Flashing: Minimum 2970 kPa (431 psi).

Tensile Strength: (ASTM D 2370) 160 psi.

Elongation: (ASTM D 2370) – 16.8%.

Wind Driven Rain: (FS TT-C-555B) - No moisture penetration.

Air Permeance (ASTM E 283) - 0.0006 l/s/m² @ 75Pa (1.2x10⁻⁴ cfm/ft² @ 1.6 psf)

Air Barrier Assembly (ASTM E 2357) - 0.05 l/sec m² @300 Pa (<0.001 cfm/ft² @ 6.24 psf)

Moisture Resistance: (ASTM D 2247) - No deleterious effects.

Flame Spread/Smoke Development: (ASTM E 84) - Flame Spread 5, Smoke Development 20.

For a complete list of performance requirements and results, refer to Backstop NT Specifications DSC176.

Application Procedure
FOR COMPLETE
INSTALLATION
INSTRUCTIONS, REFER TO
BACKSTOP NT - TEXTURE

APPLICATION INSTRUCTIONS, DSC177.

Job Conditions – Air and surface temperature for application of Backstop NT - Texture must be 4 °C (40 °F) or higher and must remain so for a minimum of 12 hours.

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

Approved Substrates:

- DensGlass Gold®
- Exterior cement and calcium silicate sheathing
- APA exterior grade CD-X Plywood
- Exposure 1 rated PS2 Durability OSB
- Unpainted CMU or concrete

Surface Preparation – The sheathing board gaps shall not exceed 6.4 mm (1/4 in) and the surface must be flat within 6.4 mm (1/4 in) in any 1.2 m (4 ft) radius. CMU mortar joints shall be struck flush. Concrete and CMU shall be clean, unpainted and free of efflorescence. Tooled mortar joints and heavily textured CMU, **not split faced**, shall be “skim coated” with Genesis™ or Genesis™ DM prior to application of Backstop NT - Texture. All substrates shall be dry and free of foreign materials such as dirt, dust, oil, paint, wax, water repellants or other materials that inhibit adhesion.

Mixing – Backstop NT - Texture is ready for use after an initial spin-up using drill with paddle mixer. DO NOT ADD CEMENT.

Membrane Application
Depending on the substrate, Backstop NT - Texture may be applied using a roller, spray

equipment and backrolled, or a trowel. Follow Dryvit Installation Instructions, DSC177 for specific requirements. Roller application produces a stipple texture; therefore, it is necessary to use a trowel to strike smooth areas to receive flashing tape (i.e., window openings) before the material dries. Please refer to the following

table for clarification on when to use Backstop NT – Texture.

Clean Up – Clean tools with water while Backstop NT - Texture mixture is still wet.

Limitations - Apply Backstop NT - Texture to approved substrates only. Application over wood

sheathings with preservative treatments is not recommended.

Storage

Backstop NT - Texture must be stored at 4 °C (40 °F) or above in tightly sealed containers out of direct sunlight.

Technical and Field Service

Available on request.

Backstop NT – Texture Usage/Application Chart				
Substrate	Location	Product	Tool	Approximate Coverage Per Pail ^e
DensGlass Gold® OSB	Joints ^a	Backstop NT - Texture	Trowel	91 m (300 lin. ft.)
	Face ^f	Backstop NT – Texture	Trowel	23-28 m ² (250-300 ft ²) [includes joints]
			19 mm (¾ in) Nap Roller	37 m ² (400 ft ²) ^c
Exterior Grade Plywood and Exterior Cement Board	Joints ^a	Backstop NT - Texture	Trowel	91 m (300 lin. ft.)
	Face ^f	Backstop NT – Texture	Trowel or FoamPRO #58 Roller ^b	For both tools 23-28 m ² (250-300 ft ²)
			13 mm (1/2 in) Nap Roller	37 m ² (400 ft ²) ^c
Concrete and Masonry ^{d, g}	Face	Backstop NT - Texture	Trowel ^g	16.7 m ² (180 ft ²) ^h
			FoamPRO #58 Roller ^b	11-14 m ² (125-150 ft ²) 2 coats

^a Tape the joints with Dryvit Grid Tape or AquaFlash Mesh prior to application of Backstop NT – Texture at joints and screw heads. Wood sheathing joints shall be reinforced with 4" AquaFlash Mesh – previously known as scrim tape.

^b Up to 1 pint (16 oz) of water may be added to a 60 lb pail of Backstop NT – Texture for roller or spray applications only. The FoamPRO #58 roller cover (FoamPRO Mfg., Inc., www.foampromfg.com) is available at home supply stores.

^c Because of application methodology and absorptive surface differences, two coats may be required to obtain this coverage.

^d Apply a 6 ft x 6 ft test area with coverage as indicated in the chart, before proceeding with the entire job. If there are voids in the dried BSNT – Texture, particularly at the mortar joints, the job should be parged with Genesis, 24 hours prior to BSNT – Texture roller application.

^e Backstop NT – Texture should be applied at the recommended coverage rates to form a continuous film free of voids at a dry film thickness of approximately 4 mils.

^f Backstop NT – Texture (with up to 1 pint water addition per 60 lb. pail) may be sprayed and backtrowelled/backrolled.

^g Due to variations in types of masonry a 6 ft x 6 ft test area shall be prepared to ensure that a continuous film can be achieved. Backstop NT - Texture shall not be used as a skim coat for parging joints or heavy textured units.

^h Coverage may vary depending on the porosity of the masonry substrate. Coverage based on smooth dense block surface.

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ELASTOCOL STICK

TECHNICAL DATA SHEET
131007SCAN9E
(supersedes 130318SCAN1E)

DESCRIPTION

ELASTOCOL STICK is a primer designed to enhance the adhesion of self-adhesive membranes on porous surfaces such as "DENS GLASS GOLD" and "DENS DECK" at temperatures above $-10\text{ }^{\circ}\text{C}$ ($14\text{ }^{\circ}\text{F}$). It is composed of SBS synthetic rubbers, adhesive enhancing resins and volatile solvents. It is also suitable to prime non-porous surfaces such as concrete, fibre cement, metal, and wood.

APPLICATION

ELASTOCOL STICK can be applied with a brush, a roll or a spray can. It must be thoroughly dry before applying the waterproofing membrane. **ELASTOCOL STICK** must be shaken well before use.

WARNING: DO NOT ACCELERATE DRYING OF ELASTOCOL STICK BY HEATING IT WITH A TORCH.
FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.

COVERAGE

Average coverage: porous surfaces: 0.3 to 0.5 L/m²,
non-porous surfaces: 0.1 to 0.25 L/m².

PROPERTIES

Properties	ELASTOCOL STICK
Specific Gravity at 20 °C (68 °F)	0.79 kg/L
Colour	Red
Solids by Weight	24 %
Viscosity, Brookfield at 25 °C (77 °F)	200 cP
Drying time	15 to 60 minutes, depending on temperature and quantity applied.

(All values are nominal)

PACKAGING

3.78 L, 19 L pails and 350 g spray cans.

STORAGE & HANDLING

Shelf life: Up to 60 months in original sealed containers, in cool and ventilated area.

Tools can be cleaned with petroleum solvents such as mineral spirits, varsol, xylene, etc.

Store in a well ventilated area. Keep away from any source of heat, dampness, humidity, oxidizing agents or direct sunlight. Flammable before curing. Keep away from sources of ignition.

For more information, refer to instruction on the label of the can and to relevant Material Safety Data Sheet (MSDS).

Description

Quarzputz® E, Sandpebble™ E and Sandpebble™ Fine E™ finishes are lightweight, premixed 100% acrylic-based coatings, which are offered in standard colours as well as custom colours in Dryvit's Pastel and Mid-base formulations. Packaged in pails weighing nearly half the weight of standard finishes, the E finishes allow for far greater ease of application at the same coverage rates and the same high performance as all Dryvit finishes. They are more flexible than standard acrylic finishes.

Uses

E finishes are durable and provide surface colour and texture for Dryvit systems. These finishes can also be applied over other properly prepared substrates such as exterior masonry, stucco, precast or cast-in-place concrete. The finishes are also suitable for interior applications. All finishes can be trowel applied or spray applied with a hopper gun or pole gun-type sprayer.

Coverage

All coverages are approximate and depend upon substrate, details and individual application technique. The finishes are shipped in 18 kg (40 lb) pails.
Quarzputz E: approximately 11 m² (120 ft²) per pail.
Sandpebble E: approximately 12 m² (130 ft²) per pail.
Sandpebble Fine E: approximately 15 m² (160 ft²) per pail.

Texture

E finishes achieve a texture, which is governed by aggregate size as well as the trowel motion in finishing the wall. Quarzputz E produces a rilled pattern in a regular or random style. Sandpebble E produces a rough, pebbly texture, which is ideal for covering surface imperfections. Sandpebble Fine E produces a fine pebble texture.

Properties

Drying Time – Drying of the finishes is dependent on the air

temperature, relative humidity and coating thickness. Under average drying conditions [21 °C (70 °F), 55% R.H.], E finishes will dry in 24 hours. Lower temperature and higher humidity will require that the E finish be protected for longer periods. Protect work from rain during the drying period.

Testing Information

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

Application Procedure

Job Conditions - Air and surface temperature for application of E finishes must be 4 °C (40 °F) or higher and must remain so for a minimum of 24 hours.

Temporary Protection - Shall be provided at all times until the E finish is dry, and installation of permanent flashings, sealants, etc. are completed to protect the wall from inclement weather and other sources of damage.

Surface Preparation

- Surface must be smooth and free of imperfections to ensure satisfactory appearance.
- Interior or exterior surfaces must be above 4 °C (40 °F) and must be clean, dry, structurally sound and free of efflorescence, grease, oil, form release agents and curing compounds.
- **Dryvit Reinforced Base Coat:** The base coat must dry and cure for a minimum of 24 hours before application of any E finish.
- **Concrete:** Shall have cured a minimum of 28 days prior to application of the E finishes. If efflorescence, form release agents or curing compounds are present on the concrete surface, the surface shall be thoroughly washed with muriatic acid and flushed to remove residual acid. All projections shall be removed and small voids filled with Dryvit Primus®, Primus® DM, Genesis™ or Genesis™ DM mixture (see product data sheets for mixing and application). Dryvit Color Prime™, Color Prime W™ or Primer with

Sand™ shall be applied to the prepared concrete surface using a roller or brush (see product data sheets for mixing and application) prior to applying the E finish.

- **Masonry:** The masonry surface, with joints struck flush, shall be "skim coated" with Primus, Primus DM, Genesis or Genesis DM mixture (see product data sheets for mixing and application) to produce a smooth, level surface.
- **Stucco:** Dryvit Color Prime, Color Prime W or Primer with Sand shall be applied over the cured brown coat surface using a roller or brush (see product data sheets for mixing and application) prior to applying the E finish. If additives are present in the stucco, a test patch shall be made and bond strength checked prior to application.

Mixing – Some settling of the E finish may occur during shipping. Thoroughly mix the E finish with a "Twister" paddle or equivalent mixing blade powered by a 12.7 mm (½ in) drill, 450-500 rpm, until a uniform workable consistency is attained. It should not be necessary to add water. If a looser workability is desired after mixing, add no more than 59 ml (2 oz) of water per pail of any E finish.

Application – Using a stainless steel trowel, apply and level a coat of Quarzputz E to a uniform thickness, no thicker than largest aggregate. For Sandpebble E or Sandpebble Fine E, roughly apply an even coat to a thickness slightly thicker than the largest aggregate size. Using a stainless steel or plastic float, lightly float the finish to a uniform appearance. Best results are achieved using less pressure when troweling and floating than with standard full weight finishes.

Note: With Quarzputz E, it is even more critical to use a light touch when troweling and floating the material in order to produce a uniform rilled texture. Allow a little extra time for the

material to take up before floating

Clean Up - Clean tools with water while the E finishes are still wet.

Maintenance - All Dryvit products are designed to require minimal maintenance. However, as with all building products, depending on location, some cleaning may be required. See Dryvit publication DS152 on cleaning and recoating.

Storage

E finishes must be stored at a minimum of 4 °C (40 °F) and maximum of 38 °C (100 °F) in tightly sealed containers out of

direct sunlight. In warm storage conditions, the bucket lid may bulge slightly. This is due to thermal expansion of air within the finish and is not harmful to the finish or the pails.

Cautions and Limitations

- E finishes must not be used on exposed exterior horizontal surfaces. Minimum slope is 6 in 12 which is 27°. Maximum length of slope is 305 mm (12 in).
- E finishes shall not be used below grade when applied as the finish for a Dryvit EIF System.

- E finishes are not intended for direct-applied, vertical applications over exterior gypsum based sheathing board, foam plastic insulation or other type insulation board.
- E finishes shall not be returned into any sealant joint. Instead, a coat of Dryvit Color Prime or Dryvit Demandit® should be applied over the base coat in the joint.
- E finishes are not available in colours formulated with Dryvit's Accent Base.

Technical and Field Services

Available on request.

E Finish Testing			
Test	Test Method	Criteria	Results ¹
Surface Burning Characteristics	ASTM E 84	ICC and ANSI/EIMA 99-A-2001 Flame Spread <25 Smoke Developed <450	Passed
Flexibility ²	ASTM D 522 Method B	No ICC or ANSI/EIMA Criteria	Passed: 1.5" diameter @ 73 °F
Water Vapor Transmission	ASTM E 96 Procedure B	ICC: Vapor Permeable No ANSI/EIMA Criteria	21 Perms
Accelerated Weathering	ASTM G 154 Cycle 1 (QUV)	ANSI/EIMA 99-A-2001 2000 hours: No deleterious effects ³	5000 hours: No deleterious effects ³
	ASTM G 155 Cycle 1 (Xenon Arc)	ICC: 2000 hours: No deleterious effects ³	2000 hours: No deleterious effects ³
Chalk Rating	ASTM D 4214 after ASTM G 154 Cycle 1	No ICC or ANSI/EIMA Criteria	Chalk rating: 7 after 5000 hours QUV
Instrumentally Measured Colour Difference ⁴ (includes yellowing)	ASTM D 2244 CIELAB, 10° Observer after ASTM G 154 Cycle 1	No ICC or ANSI/EIMA Criteria	Colour change: 0.99 Delta E after 5000 hours QUV
Freeze-Thaw Resistance	ASTM E 2485 (formerly EIMA 101.01)	ANSI/EIMA 99-A-2001 60 cycles: No deleterious effects ³	90 cycles: No deleterious effects ³
	ASTM E 2485 ICC – ES Proc. (AC212)	ICC: 10 cycles No deleterious effects ³	10 cycles: No deleterious effects ³
Mildew Resistance	ASTM D 3273	ANSI/EIMA 99-A-2001 28 days: No growth	60 days: No growth
Salt Spray Resistance	ASTM B 117	ICC and ANSI/EIMA 99-A-2001 300 hours: No deleterious effects ³	300 hours: No deleterious effects ³
Water Resistance	ASTM D 2247	ICC and ANSI/EIMA 99-A-2001 14 days: No deleterious effects ³	42 days: No deleterious effects ³
Abrasion Resistance	ASTM D 968 Method A Falling Sand	ANSI/EIMA 99-A-2001 500 liters (528 quarts): No deleterious effects ³	1000 liters (1057 quarts): No deleterious effects ³
	ASTM D 4060 Taber Abrasion (1 kg load)	No ICC or ANSI/EIMA Criteria	1000 cycles: 104.7 mg loss
Adhesion to Concrete	ASTM D 4541	ICC and ANSI/EIMA 99-A-2001: 15 psi minimum	>203 psi
Tensile Bond	ASTM C 297/E 2134 (formerly EIMA 101.03)	ICC and ANSI/EIMA 99-A-2001: 15 psi minimum	>29 psi
Scrub Resistance	ASTM D 2486	No ICC or ANSI/EIMA Criteria	Avg. 0.22% loss

1. Testing referenced is based on Quarzputz E Pastel Base finish.

2. Finish applied over aluminum panels, bent on cylindrical mandrels as described in ASTM D 522 Method B. Lower diameter indicates high flexibility.

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

4. Delta E is total colour difference, including yellowing, lightening, darkening, changes in red, blue, and green colour values. Finish exposed to 5,000 hours of QUV prior to evaluating Delta E.

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DRYVIT[®] FLASHING TAPE[™], FLASHING TAPE SURFACE CONDITIONER[™] AND GRID TAPE[™]

DSC450

DRYVIT FLASHING TAPE

Description

Dryvit Flashing Tape is a tough, self-adhering, self-healing construction grade tape used to seal rough openings in walls utilizing a Dryvit system by bridging the joints between sheathing and other underlying framing or foundation components. It is an integral component of the Outsulation[®] Plus, Outsulation MD, and Infinity[®] Systems. It is available in 100 mm (4"), 150 mm (6") and 230 mm (9") widths, 23 m (75 ft) per roll.

Limitations

Dryvit Flashing Tape should be covered within the same work period. The tape has limited UV resistance and must not be exposed longer than 30 days. The tape is compatible with fully-cured coat tar products. It is not compatible with creosote and joint sealants containing polysulfide polymer. Discoloration of all sealants may occur if sealant is in direct contact with the rubberized asphalt adhesive. After precipitation, allow the surfaces a minimum 24 hours drying time before application. Apply only when surface and air temperatures are at 4 °C (40 °F) and rising.

Composition

Dryvit Flashing Tape is a 25 mil cold-applied, self-adhering membrane composed of a 3.0 mil high density, cross laminated polyethylene film coated on one side with a 22.0 mil layer of rubberized asphalt adhesive. The rolls are interwound with a disposable silicone-coated release sheet for ease of application. The tape is gray/black in color.

Storage

Protect from rain and physical damage. Store in a well-ventilated area where temperatures will not exceed 32 °C (90 °F) for extended periods,

and away from all sources of high heat, flames, or sparks.

Surface Preparation

Surface must be smooth, clean, dry, and free of spalled areas, loose aggregate, loose nails, sharp protrusions of any kind, or any other matter that might hinder the regularity and adhesion of the Flashing Tape installation. Loose dirt or dust must be removed from all surfaces prior to application. It is recommended that Dryvit Flashing Tape Surface Conditioner be used on dirty or dusty surfaces, or if difficulty in adhering the Flashing Tape for any reason is encountered. Allow Surface Conditioner to dry thoroughly before application of Flashing Tape. Apply Surface Conditioner on the same day that Flashing Tape will be applied. Follow Dryvit's system instructions for more information.

Application

Cut Dryvit Flashing Tape into appropriate lengths. As familiarity with the installation increases, it may be possible to install the tape in continuous fashion. In all cases, follow Dryvit guidelines for application as shown in the relevant details of the Dryvit system used on the project.

- Windows and doors
- Foundations
- Other types of openings
- Expansion joints

Availability

Dryvit Flashing Tape is available only from your Dryvit Distributor.

Warranty

Dryvit Flashing Tape is covered by the appropriate warranty for the system used.

TABLE 1		
PHYSICAL TYPICAL PROPERTIES		
Dryvit Flashing Tape		
Property	Test Method	Typical Value
Thickness	ASTM D 3767 Method A	25 mil (.64 mm)
Low Temperature Flexibility	ASTM D 1970	Unaffected at -43 °C (-45 °F)
Elongation, Ultimate Failure of Rubberized Asphalt	ASTM D 412	200%
Tensile Strength (Film)	ASTM D 412	5,000 psi
Crack Cycling 100 Cycles	ASTM C 836	Unaffected at -32° C (-25 °F)
Lap Adhesion at Minimum Application Temperature	ASTM D 1876 Modified	5.0 lbs./in. width (876 N/m)
Adhesion to Concrete at Minimum Application Temperature	ASTM D 903	5.0 lbs./in. Width (876 N/m)
Water Absorption, 72 Hours	ASTM D 570	0.1% Maximum
Puncture Resistance	ASTM E 154	44 lbs.
Permeance	ASTM E 96 Method B	0.05 perms max.
Application Temperature Range		4 °C (40 °F) to 43 °C (110 °F)
Operating Temperature Range		-32 °C (-25 °F) to 66 °C (150 °F)

DRYVIT FLASHING TAPE SURFACE CONDITIONER

Description

Dryvit Flashing Tape Surface Conditioner is a water-based latex surface treatment that is specifically formulated to bind site dust and concrete efflorescence, thereby providing a surface more receptive to the adhesion of Dryvit Flashing Tape. It is especially recommended for dirty, dusty, irregular or rough surfaces. Dryvit Flashing Tape Surface Conditioner promotes good initial grab as well as permanent adhesion of the Dryvit Flashing Tape to the underlying substrates.

Use

Dryvit Flashing Tape Surface Conditioner is used to condition structural concrete, masonry, wood or sheathing based substrates on which Dryvit Flashing Tape is to be applied. Sufficient Surface Conditioner should be applied so as to leave the substrate in a dust-free state, suitable for the application of Flashing Tape. Surface Conditioner can be used in vertical or horizontal applications where air and surface temperatures are above 4 °C (40 °F).

Application

Dryvit Flashing Tape Surface Conditioner is packaged ready to use and will impart an aggressive, sticky finish to the treated substrate. Apply at a rate of

7.4 m²/l (300 sf/gallon), either using a brush or roller. Allow to dry completely (about 1 hour, longer if cool or humid) before applying Flashing Tape. Surface Conditioner is considered dry when the substrate returns to its original color. Excess Surface Conditioner will not improve the adhesion of the Flashing Tape, but will significantly increase the drying time. Surface Conditioner should only be applied to surfaces that can be covered with Flashing Tape the same day. Substrates should be reconditioned if dirt or dust reaccumulates.

Clean-up

Tools should be cleaned with water immediately after use. If Surface Conditioner dries on tools, they may be cleaned using mineral spirits. Mineral spirits are combustible and should be used strictly in accordance with manufacturer's specifications. Do not use solvents to clean hands or skin.

Safety and Handling

Dryvit Flashing Tape Surface Conditioner is non-flammable. Refer to product label and Material Safety Data Sheet before use. For additional information, consult Dryvit's Technical Services Department at 800-263-3308.

TABLE 2	
PHYSICAL TYPICAL PROPERTIES	
Dryvit Flashing Tape Surface Conditioner	
Property	Typical Value
Solvent Type	Water
Flash Point	No Flash to Boiling Point
VOC (Volatile Organic Compound Content)	Less Than 2.96 lbs./gal. (350 grams/liter)
Application Temperature	4 °C (40 °F) Minimum
Freeze/Thaw Stability	5 Cycles Minimum
Freezing Point (As Packaged)	-20 °C (-5 °F)

DRYVIT GRID TAPE

Description

Dryvit Grid Tape is a specially woven and treated glass fiber mesh weighing 61 g/m² (1.8 oz/yd²) and which is self adhering. It is utilized in a variety of Dryvit systems, which require the joints and edges of the sheathing to be taped prior to the application of an air and moisture protective barrier such as Backstop™NT.

Limitations

Dryvit Grid Tape is compatible with all cement board and gypsum based sheathings. Surface must be clean, dry and free from dust and other contaminants prior to adhering Grid Tape. Do not apply more Grid Tape than can be coated with air and moisture barrier in the same day.

Composition

Dryvit Grid Tape is a leno weave fiberglass product shipped in rolls 91.4 m (300 ft.) long and 100 mm (4 in.) wide. and weighs 61 g/m² (1.8 oz/yd²).

Storage

Protect from the elements and physical damage.

Surface Preparation

Sheathing must be installed according to manufacturer's specifications. Surface must be smooth, clean, dry, and free from dust or any protrusions, which might hinder the regularity or adhesion of the Grid Tape.

Application

Center the Grid Tape on the sheathing board joints, edges, etc. with the pressure sensitive backing in contact with the sheathing surface. Press firmly into place and do not allow wrinkles to form in the tape.

Availability

Dryvit Grid Tape is available only from your Dryvit distributor.

Warranty

Dryvit Grid Tape is included in the appropriate system warranty.

REINFORCING MESH

DSC413

Glass fibre mesh for reinforcing Dryvit® base coats

Description

Specially woven and treated glass fiber mesh is used with Dryvit base coats to provide strength and impact resistance. Strength and durability are a direct result of the weight of the mesh specified.

Uses

When embedded in the Dryvit base coat mixture, the glass fiber reinforcing mesh provides continuity of surface to resist cracking and to increase impact resistance. The following guidelines are suggested:

- **Panzer® 15***: A 430 g (15-oz) mesh recommended for all ground floor and high traffic area applications. (Must be installed under Standard Plus or Standard Mesh.)
- **Panzer 20***: A 570 g (20-oz) mesh recommended for all ground floor and high traffic area applications. (Must be installed under Standard Plus or Standard Mesh.)
- **Intermediate**: A 340 g (12-oz) mesh recommended for the second story and above where a medium amount of traffic is anticipated, i.e., walkways, balcony areas, etc.
- **Standard Plus**: A 170 g (6-oz) mesh recommended for the second story and above where added protection from such things as window washing equipment, ladders, etc. is desired.
- **Standard**: A 120 g (4.3-oz) mesh recommended for all applications where no abuse from people, machines, window washing equipment, etc. is anticipated, typically second story areas and above.
- **Detail Mesh® Short Rolls**: A 120 g (4.3-oz) mesh available in 240 mm (9-1/2") widths. It is recommended for special shapes and irregular detail work.
- **Corner Mesh***: A 200 g (7.2-oz) mesh recommended for additional impact resistance and for clean, crisp angles; outside corners; and prefabricated panel edges.

*Must be installed under Standard Plus or Standard Mesh.

Coverage

The reinforcing meshes (except Panzer 15 and 20) are lapped a minimum of 64 mm (2 1/2") at all edges. The edges of Panzer 15 and 20 Mesh are abutted tightly. A layer of Standard or Standard Plus Mesh must be applied over the entire wall using published application methods when using Panzer 15 and 20 Mesh. Roll dimensions are as follows:

- **Panzer 15**: 1200 mm wide x 23 m (48 in wide x 75 ft) [28 m² (300 ft²)]
- **Panzer 20**: 1200 mm wide x 23 m (48 in wide x 75 ft) [28 m² (300 ft²)]
- **Intermediate**: 1200 mm wide x 23 m (48 in wide x 75 ft) [28 m² (300 ft²)]
- **Standard Plus**: 1200 mm wide x 46 m (48 in wide x 150 ft) [56 m² (600 ft²)]
- **Standard**: 1200 mm wide x 46 m (48 in wide x 150 ft) [56 m² (600 ft²)]; 1800 mm wide x 46 m (72 in wide x 150 ft) [84 m² (900 ft²)]
- **Detail Mesh**: 240 mm wide x 46 m (9 1/2 in wide x 150 ft) [11 m² (119 ft²)]
- **Corner Mesh**: 230 mm wide x 46 m (9 1/4 in wide x 150 ft)

Application Procedure

Prior to base coat/reinforcing fabric application, all insulation board irregularities greater than 1.6 mm (1/16") 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 applications shall be installed in accordance with Dryvit's recommendations.

When using Panzer 15 or 20 Mesh, apply the Dryvit base coat mixture to the entire surface of the insulation board at a uniform thickness not to exceed 3.2 mm (1/8"). Immediately embed the Panzer Mesh into the wet mixture working from the center to the edges until the mesh is fully covered and not visible. Edges of adjacent Panzer Mesh pieces shall be tightly butted but not overlapped. After it cures (minimum 24 hours), examine for projections and correct them as necessary to produce a flat surface. A layer of Standard or Standard Plus Mesh shall be installed as described in the first paragraph.

Special Conditions and Recommendations

- All areas requiring an impact resistance higher than "standard," as defined by EIMA Standard 101.86, shall be as detailed in the drawings and described in the contract documents.
- All edges of the insulation board at bottom and top of walls and at all openings must be wrapped with reinforcing mesh.
- The reinforcing mesh may be wrapped from the front side onto the studs at an opening or panel edge or the mesh may be attached to the substrate and wrapped onto the face of the insulation board from behind. Remember, all insulation board edges must be covered with the Dryvit base coat.
- It is recommended that the inside curl of the mesh be applied toward the face of the wall for easier application.
- When covering Panzer 15 or 20 Mesh, the 64 mm (2 1/2") lap of Standard or Standard Plus Mesh should not occur over the abutment of the two pieces of Panzer Mesh.
- Water vapor transmission analysis is recommended by Dryvit Systems, Canada when over 50% of the total Dryvit wall area, within a given building story, utilizes Panzer 15 or 20 Mesh.

Technical and Field Services

Available on request

Dryvit Systems Canada
129 Ringwood Drive
Stouffville, Ontario
Canada L4A 8A2
1-800-263-3308
www.dryvit.com

Information contained in this product sheet conforms to the standard detail recommendations and specifications for the installation of Dryvit Systems Canada products as of the date of publication of this document and is presented in good faith. Dryvit Systems Canada 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 Systems Canada.


DRYVIT SYSTEMS CANADA

Description

Primus DM is a dry mix, polymer-modified, cementitious adhesive and base coat. It is supplied in 23 kg (50 lb.) bags and, when mixed with water at the job site, produces a high performance, easily applied adhesive and base coat for use with Dryvit systems.

Uses

Primus 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.

Coverage

Approximately 5.1 m² (55 ft²) of surface area per 22.7 kg (50 lb.) bag, depending on job conditions, application techniques, etc. This includes adhesive and base coat layers. For adhesive only 9.3 m² (100 ft²); for base coat only 11.1 m² (120 ft²).

Properties

Working Time - After mixing, the working time of the Primus DM mixture is approximately 1-3 hours depending on ambient weather conditions.

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

When used to bond expanded polystyrene insulation board to an acceptable substrate, a period of 24 hours must elapse to allow the Primus 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 Procedures

FOR COMPLETE APPLICATION INSTRUCTIONS, REFER TO THE APPROPRIATE DRYVIT SYSTEM APPLICATION INSTRUCTIONS.

Job Conditions - Air and surface temperatures for application of the Primus DM mixture must be 4 °C (40 °F) 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
- Galvanized expanded metal lath 1.4 or 1.8 kg/m² (2.5 or 3.4 lbs/yd²) installed over a solid substrate

Surface Preparation:

- Surfaces must be above 4 °C (40 °F) 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 6.4 mm (1/4 in) in a 1.2 m (4 ft) radius.

Mixing

Pail Mixing – One 22.7 kg (50 lb) bag of material will produce approximately 19 L (5 gal) of Primus DM mixture. Add 5.7 L (1.5 gal) of clean potable water into a clean plastic container. Add the Primus DM slowly while mixing using a "Twister" paddle or equivalent mixing blade, powered by a 12.7 mm (1/2 in) 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 Primus DM material. Allow the mixture to set for a minimum of 5 minutes then retemper, adding a small amount of water if necessary. Material must be free of lumps before using.

Mortar Mixer – Add 5.7 L (6 qt) of clean potable water for each 22.7 kg (50 lb.) bag of Primus DM into a clean mortar mixer. Add the Primus DM while the mixer is running. Let mix 3 to 5 minutes, shut the mixer off for 5 minutes, then run mixer for another 2 to 3 minutes to break the set and add a small amount of water if necessary to adjust the workability. The pot life is 1 to 3 hours depending on weather.

Application

Adhesive – For application over sheathing substrates, use a stainless steel notched trowel with notches measuring 12.7 mm (1/2 in) wide, 12.7 mm (1/2 in) deep spaced 50.8 mm (2 in) apart. Apply the Primus 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 previously described. **CAUTION: Do not install the Primus DM mixture directly on the substrate.** Immediately place the insulation board on the substrate, ensuring that no Primus DM mixture gets into board joints. Do not allow the Primus 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 1.6 mm (1/16 in) 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 centre 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.

Clean Up – Clean tools with water while the Primus DM mixture is still wet.

Storage

Primus 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 Primus DM is warm or hot, the pot life of the Primus DM mixture will be greatly reduced. The shelf life is 1 year from date of manufacture when properly stored in unopened bags.

Cautions and Limitations:

- Clean, cool potable water may be added to adjust workability. Do not over water. Warm water will accelerate the set.
- Primus DM 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.

- Substrate and air temperatures must be above 4 °C (40 °F) or higher and rising at time of application.
- Wear protective eyewear and clothing since the product contains cement, which cause irritation.
- Avoid working in direct sunlight and keep mixed Primus DM in the shade.

Technical and Field Services
Available on request.

Primus 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
Test for Non-Combustibility	CAN/ULC-S114	No flaming after 30 seconds No more than 20% reduction in mass	Passed
Water Vapour Transmission	ASTM E 96 Procedure B	ICC: Vapour Permeable No ANSI/EIMA Criteria	66 Perms
Accelerated Weathering	ASTM G 23 (Carbon Arc)	ICC: 2000 hours: No deleterious effects ¹	2000 hours: No deleterious effects ¹
Freeze-Thaw Resistance	ASTM E 2485 (formerly EIMA 101.01)	ANSI/EIMA 99-A-2001 60 cycles: No deleterious effects ¹	60 cycles: No deleterious effects ¹
	ASTM E 2485/ICC-ES Proc: ICC ES (AC219*)	No deleterious effects ¹ after 10 cycles	Passed – No deleterious effects ¹ after 10 cycles
Water Resistance	ASTM D 2247	ICC and ANSI/EIMA 99-A-2001 14 days: No deleterious effects ¹	14 days: No deleterious effects ¹
Tensile Bond ²	ASTM C 297/E 2134 (formerly EIMA 101.03)	ICC and ANSI/EIMA 99-A-2001 Minimum 104 kPa (15 psi) – substrate or insulation failure	>104 kPa (15 psi)
Water Penetration	ASTM E 331	No water penetration beyond the inner-most plane of the wall after 2 hours at 299 Pa (6.24 psf)	Passed 2 hours at 299 Pa (6.24 psf)
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			

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Specifications

The **4000 Film Series** clear and black polyethylene product line has a wide selection of sizes and gauges for general industrial, agricultural and construction applications.

Ralston's Series 4000 is made using premium blends of "linear rich" polyethylene resin. We offer an extensive stock size portfolio as well as custom made "poly" using different "slip" components, extra UV stabilizers, special additive packages, and a dozen other features to fit the specific needs of the Canadian film marketplace.

Main properties:

- All our film is packed in clear PE sleeves with product identification labels both inside and outside the sleeve.
- All pallets are wrapped for safer transportation and easier storage.
- Colour coded labels are provided for identification of size and product type.
- Available in all standard sizes.
- Available with custom formulas.
- Available in custom lengths and widths.
- Warehoused in three locations across the country.
- Linear rich formula provides superior strength.



Proshield General Purpose Polyethylene Film

Item Number	Width x Length	Fold	Strength	Core Length (Inches)	Square Feet	Colour	Skid Qty East	Skid Qty West
420102	16 x 750	LF	Light - 4 Rolls	12.5	1000	Red	60	60
421000	72 x 250	CF	Light	37	1500	Clear	156	156
431000	72 x 250	CF	Medium	37	1500	Clear	90	90
441000	72 x 250	CF	Heavy	37	1500	Clear	110	64
421300	102 x 59	JF	Light	53	500	Clear	306	306
431300	102 x 59	JF	Medium	53	500	Clear	210	210
441300	102 x 59	JF	Heavy	53	500	Clear	156	156
411400	102 x 177	JF	Utility	53	1500	Clear	225	225
421400	102 x 177	JF	Light	53	1500	Clear	156	156
431400	102 x 177	JF	Medium	53	1500	Clear	90	90
441400	102 x 177	JF	Heavy	53	1500	Clear	72	72
431500	120 x 100	4F	Medium	31	1000	Clear	110	110
432800	120 x 100	CF	Medium	62	1000	Clear	156	156
441500	120 x 100	4F	Heavy	31	1000	Clear	72	72
442800	120 x 100	CF	Heavy	62	1000	Clear	110	110
442801	120 x 100	CF	Heavy	62	1000	Black	110	110
451500	120 x 100	4F	Extra Heavy	31	1000	Clear	49	49
421600	120 x 150	4F	Light	31	1500	Clear	143	143
422900	120 x 150	CF	Light	62	1500	Clear	168	168
431600	120 x 150	4F	Medium	31	1500	Clear	72	72
441600	120 x 150	4F	Heavy	31	1500	Clear	56	56
451600	120 x 150	4F	Extra Heavy	31	1500	Clear	30	30
441700	120 x 167	4F	Heavy	31	1670	Clear	49	49
431800	120 x 250	4F	Medium	31	2500	Clear	49	49
421900	120 x 500	4F	Light	31	5000	Clear	49	49
432000	144 x 100	4F	Medium	37	1200	Clear	90	90
442000	144 x 100	4F	Heavy	37	1200	Clear	72	72
422400	240 x 100	4F	Light	62	2000	Clear	169	169
432400	240 x 100	4F	Medium	62	2000	Clear	90	90
442400	240 x 100	4F	Heavy	62	2000	Clear	64	64
442401	240 x 100	4F	Heavy	62	2000	Black	64	64
452400	240 x 100	4F	Extra Heavy	62	2000	Clear	42	42

Label Key: Light Medium Utility Heavy Extra Heavy

- All our film is packed in clear PE sleeves with product identification labels both inside and outside the sleeve.
- All pallets are wrapped for safer transportation and easier storage.
- Colour coded labels are provided for identification of size and product type.
- Available with custom formulas.
- Available in custom lengths and widths.
- Warehoused in three locations across the country.
- Linear rich formula provides superior strength.

POLYETHYLENE MASKING TAPE FOR STUCCO APPLICATION



DESCRIPTION

This tape is made of a red polyethylene film and coated with a natural rubber adhesive. This tape is designed for masking and protecting surfaces during stucco application. Recommended as well as general protective tape, repair tape and identification tape. Removes clean with up to 30 days exposure to sunlight.

MAIN FEATURES

- Polyethylene film conforms very well to all type of surfaces.
- The strong adhesive will hold on rough surfaces.
- Moisture resistant.
- Clean removal with up to 30 days exposure to sunlight.

APPLICATIONS

- Protective masking for non-painted surfaces such as wood, glass, steel, vinyl and aluminum.
- Indoor and outdoor application.
- Splicing and holding polyethylene sheeting.
- Patching and repairing a variety of surfaces.

U.V. RESISTANT

HIGH HOLDING POWER

Please note:

While we believe them to be reliable, the statements and information herein are only for general guidance and are not warrants or guarantees for accuracy and completeness.

The user must, by test or otherwise, determine suitability for this purpose. There is no warranty of fitness for a particular purpose. Our standard term and conditions of sale apply exclusively to all orders, and all liability for damages of any kind, including consequential, exceeding purchase price is excluded.

No one is authorized by us to make oral warranties. We reserve the right to make changes without notice or obligation in our products and publications.

TECHNICAL DATA

Colour	Red
Backing	Polyethylene film
Adhesive.....	Natural rubber
Thickness.....	7 mil
Adhesion to steel	50 oz/in
Tensile strength	23 lb/in
Elongation	99%
Temperature Resistance	176°F [80°C] for 30 minutes
Application Temperature	41°F [5°C] to 122°F [50°C]
VOC (Volatile Organic Compound) content	0%

EXAMPLE OF APPLICATION



**Protecto Wrap Stucco Tape™**
Air/Vapor Barrier Tape**TECHNICAL DATA**

Properties	Test Method	Test Results
Color		White, grey and black polyester fabric
Thickness		30 mil
Tensile Strength (fabric)	ASTM D412	1400 psi
Elongation (adhesive only)	ASTM D412	500%
Permeance	ASTM E96	0.1 perm max
Nail Sealability	ASTM D1970	Pass
Operating Temperature		45°F to 240°F (7°C to 116°C)

PACKAGING

Roll Width: 4", 6", 12"
Roll Length: 100'

DESCRIPTION

Protecto Wrap Stucco Tape is a cold applied self-adhering membrane composed of a polyester fabric coated on one side with a layer of rubberized asphalt.

FEATURES

- 6 week exposure rating
- Fully adhered system
- Polyester surface allows adhesion of EIFS/Stucco base coats
- Seals around properly installed fasteners
- Is compatible with and will adhere to most construction surfaces¹
- Forms a positive air/vapor barrier²

USES

Protecto Wrap Stucco Tape is used as window and door flashing, sealing joints in exterior sheathing products and as a joint/seam sealing tape in EIFS/Stucco systems.

LIMITATIONS

Not recommended to be exposed for more than 6 weeks, consult a Protecto Wrap Company Technical Representative for assistance.

Not recommended in high temperature applications to exceed 240°F (116°C).

SHELF LIFE

Protecto Wrap Stucco Tape maintains optimum initial adhesion to substrates when used within one year from the date of manufacture.

STORAGE

Protecto Wrap Stucco Tape should be stored in the original, unopened container at ambient temperatures between 40°F to 90°F (5°C to 32°C). Storage area should remain dry and out of direct sunlight. Do not remove materials from original containers until ready for use. Do not double stack pallets.

PREPARATION

Surface shall be clean, dry and free of any foreign materials. The surface shall be free of gaps, sharp edges and protrusions.

Metal surfaces may need to be solvent wiped and/or abraded to achieve optimum adhesion.