



TECHNICAL DATA SHEET

BACKSTOP® NTX™

A High Performance, Polymer-Based,
Noncementitious Water-Resistive
Membrane and Air Barrier
DS806

PRODUCT DESCRIPTION

FOR USE BENEATH CLADDINGS OTHER THAN DRYVIT® EIFS

Backstop NTX is a flexible, polymer-based, noncementitious, air/water-resistive barrier, which resists water penetration, eliminates air infiltration, and is vapor permeable. It is classified as a Class III vapor retarder over vertical above grade walls. Backstop NTX is available in three versions:

- **Backstop NTX - Texture** is applied using a trowel, roller, or texture spray equipment.
- **Backstop NTX - Smooth** is applied by roller or texture spray equipment.
- **Backstop NTX - Spray** is applied by airless spray equipment.



BASIC USES

Backstop NTX – Texture, Smooth and Spray are designed for use with exterior building cladding systems. When used with the Dryvit AquaFlash® System or Dryvit Flashing Tape™, Backstop NTX provides an effective air barrier and water-resistive membrane for acceptable substrates.

FEATURES & BENEFITS

FEATURES

- Includes a reinforcing fabric at sheathing joints
- Bonds to most construction materials
- Fluid applied/Fast drying
- Can be exposed for 180 days

BENEFITS

- Ensures a continuous film barrier across transitions
- No need for multiple products
- Easy to use
- Not subject to tear off or damage from wind

PROPERTIES

Benefits: Backstop NT is used straight out of the pail after an initial spin up to provide a continuous membrane with ease of application. The liquid applied coating is seamless and will not tear. Additionally, it is stable under air pressure differences and will not be affected by wind.

Working Time: Backstop NT - Texture, Smooth and Spray are noncementitious, water based materials and will not set-up in the pail. Keep pail covered when not in use to minimize skinning.

Drying Time: The drying time is dependent upon the air temperature, wind conditions and relative humidity. Under average drying conditions [70 °F (21 °C), 55% R.H.], Backstop NT will be dry to the touch within 2 hours and cure in 6 hours.

			APPROX. COVERAGE PER PAIL	APPROX. COVERAGE PER DRUM
EXTERIOR GRADE GYPSUM SHEATHING				
Joints ^a	BSNTX - Texture	Trowel	300 lin. ft (91 m)	
Face ^e	BSNTX - Texture	Trowel, FoamPRO #58 Roller ^b or Texture Sprayer	250-300 ft ² (23-28 m ²)	
	BSNTX – Smooth ^{c,®}	1/2 in (12.7 mm) Nap Roller or Texture Sprayer	500 ft ² (46 m ²)	
	BSNTX - Spray ^f	Airless Spray	500-600 ft ² (46-56 m ²)	5000-6000 ft ² (465-557m ²)
FIBERGLASS FACED EXTERIOR GYPSUM SHEATHING				
Joints ^a	BSNTX - Texture	Trowel	300 lin. ft (91 m)	
Face ^e	BSNTX - Texture	Trowel or Texture Sprayer	250-300 ft ² (23-28 m ²) [includes joints]	
	BSNTX - Smooth ^{c,®}	3/4 in (19 mm) Nap Roller or Texture Sprayer	400 ft ² (37 m ²)	
	BSNTX - Spray ^g	Airless Spray	500-600 ft ² (46-56 m ²)	5000-6000 ft ² (465-557m ²)
EXPOSURE 1, EXTERIOR GRADE, AND FIRE RETARDANT TREATED PLYWOOD; AND EXTERIOR CEMENT BOARD				
Joints ^a	BSNTX - Texture	Trowel	300 lin. ft (91 m)	
Face ^e	BSNTX - Texture	Trowel, FoamPRO #58 Roller ^b or Texture Sprayer	250-300 ft ² (23-28 m ²)	
	BSNTX - Smooth ^{c,®}	1/2 in (12.7 mm) Nap Roller or Texture Sprayer	400 ft ² (37 m ²)	
	BSNTX - Spray ^g	Airless Spray	500-600 ft ² (46-56 m ²)	5000-6000 ft ² (465-557m ²)
APA EXPOSURE 1 RATED ORIENTED STRAND BOARD (OSB)				
Joints ^a	BSNTX - Texture	Trowel	300 lin. ft (91 m)	
Face ^e	BSNTX - Smooth ^{c,®}	1/2 in (12.7 mm) Nap Roller or Texture Sprayer	350-400 ft ² (33-37 m ²)	
	BSNTX - Spray ^g	Airless Spray	applied in 2 coats, backrolled	3000-4000 ft ² (325-372m ²)
CONCRETE AND MASONRY^{d,®}				
Face	BSNTX - Texture	Trowel ^f	200-250 ft ² (19-23 m ²) applied in 1 coat	
	BSNTX - Texture	FoamPRO #58 Roller or Texture Sprayer	200-250 ft ² (19-23 m ²) applied in 2 coats, backrolled	
	BSNTX - Spray ^g	Airless Spray	350-500 ft ² (28-46 m ²)	3000-5000 ft ² (279-465m ²)

^a Tape the joints with Dryvit Grid Tape prior to application of Backstop NTX - Texture at joints and screw heads.

^b Up to 1 pint (16 oz) of water may be added to a 60 lb pail of Backstop NTX - 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 Due to variations in types of concrete/masonry, 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 substrate, particularly at the mortar joints, the job should be parged with Genesis®, 24 hours prior to BSNTX - Texture application. Backstop NTX shall NOT be used as a skim coat for parging CMU joints or heavy textured units.

^e Backstop NTX - Texture (with up to 1 pint water addition per 60 lb. pail) or Smooth may be sprayed and backtrowelled/backrolled.

^f Coverage may vary depending on the texture and porosity of the substrate. Coverage assumes a smooth, dense surface.

^g Backstop NTX should be applied at the recommended coverage rates to form a continuous film free of voids, pinholes or other discontinuities. The following approximate mil thicknesses are recommended:

Backstop NTX Texture 12 DFT 20* WFT

Backstop NTX Smooth 12 DFT 20* WFT

Backstop NTX Spray 9 DFT 15* WFT

* Based on volume solids

Refer to Product Data Sheets for Complete Mixing and Application Instructions

Testing Information: For test data refer to the chart included with this document.

Application Procedure: For complete application instructions refer to DS300.

Job Conditions: Air and surface temperature for application of Backstop NTX must be from 40 °F (4 °C) minimum to 100 °F (38 °C) maximum and must remain so for a minimum of 12 hours.

Temporary Protection: Shall be provided at all times until membrane is dry and shall not be exposed to weather for longer than 180 days prior to installation of the specified cladding.

Acceptable Substrates:

All sheathing substrate joints must be treated with Dryvit Grid Tape and Backstop NTX - Texture prior to application over the full sheathing surface. Acceptable substrates include:

- Core treated exterior grade gypsum sheathing meeting ASTM C 1396 (formerly C 79).
- Core treated exterior grade gypsum sheathing with fiberglass mat facers meeting ASTM C 1177.
- Exterior fiber reinforced cement or calcium silicate boards.
- APA Exterior or Exposure 1 Rated Plywood, Grade C-D or better, nominal 1/2 in (12.7 mm) minimum, 4-ply.
- APA Exterior Grade Fire Retardant Treated Plywood, nominal 1/2 in (12.7 mm) minimum.
- APA Exposure 1 Rated OSB, nominal 1/2 in (12.7 mm) minimum. (See limitations).
- Unpainted, unsealed concrete and CMU.

SURFACE PREPARATION

- Sheathing board gaps shall not exceed 1/4 in (6.4 mm) and the surface must be flat within 1/4 in (6.4 mm) in any 4 ft (1.2 m) radius. CMU mortar joints shall be struck flush (tooled mortar joints and heavily textured CMU [not split faced] shall be skimmed with Dryvit Genesis®, Genesis® DM or Genesis® DMS) prior to application of the Backstop NTX – Texture or Spray. CMU shall be clean, unpainted and free of efflorescence. 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.
- Concrete: Shall have cured a minimum of 28 days prior to application of the 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).
- All substrate transitions and gaps between openings and penetration components such as windows, doors, electrical boxes, etc., shall be treated with Backstop NTX - Texture, Dryvit AquaFlash®, or Dryvit Flashing Tape™. Any sealants used shall be tested for compatibility and comply with ASTM C 920.
- All opening terminations, roof/wall intersections, transitions between different materials, chimneys, decks, roof, windows, etc., must be properly flashed, wrapped and sealed as required by the building code, good construction practice and/or Dryvit Backstop NTX Application Instructions For Use Beneath Claddings Other Than Dryvit EIFS, DS300.

MIXING

Material is ready for use after an initial spin-up using a drill with paddle mixer. **DO NOT ADD CEMENT.**

APPLICATION

Backstop NT Application: Refer to the usage/application chart for the appropriate use and application technique for a given substrate.

COVERAGE

Backstop NTX – Texture and Smooth are supplied in a 5 gal (19 L) pail.

Backstop NTX – Spray is supplied in a 5 gal (19 L) pail or in a 55 gal (208 L) drum.

Coverage will vary, depending on application method and substrate. For guidance refer to the usage chart included in this document.

STORAGE

Backstop NTX 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.

CLEAN UP

Clean tools with water while material is still wet.

TECHNICAL AND FIELD SERVICES

Available on request.

CAUTIONS & LIMITATIONS

- Apply to acceptable substrates only.
- OSB - Application over Oriented Strand Board (OSB) requires a minimum of 2 coats of Backstop NT - Smooth or Spray. Backstop NTX - Texture is not recommended for use in the field of OSB.
- CMU - Application over unpainted concrete and CMU requires one of the following:
 - a. Two coats of Backstop NTX - Texture, spray or roller-applied.
 - b. Two coats of Backstop NTX - Spray.
 - c. One coat of Backstop NTX - Texture, trowel applied.
- Shall not be used below grade or on surfaces that will be subjected to water immersion.
- Shall not be used to treat holes or sheathing joints exceeding 1/4 in (6.4 mm).
- When used beneath Portland cement stucco or adhered stone products, paper backed lath shall be installed over Backstop NTX as a slip sheet.
- Backstop NTX can be exposed to weather up to 180 days to provide sufficient time for installation of the cladding. Inspect the surface of the Backstop NT for any damage, cracks, voids or other detrimental conditions and repair prior to installation of the cladding.

BACKSTOP® NTX™ - TEXTURE, SMOOTH AND SPRAY 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	No cracking at 2 mm diameter
Flexibility	ASTM E 96 Procedure B ICC ES (AC212)*	No ICC or ANSI/EIMA Criteria	Vapor Permeable
Water Vapor Transmission	ASTM E 96 Procedure B ICC ES (AC212)*	ICC: Vapor Permeable No ANSI/EIMA Criteria	Passed - 10 cycles: No deleterious effects ¹
Freeze-Thaw Resistance	ASTM E 2485/ICC-ES Procedure (AC212)*	ICC: 10 cycles No deleterious effects ¹	No deleterious effects ¹ after 14 days exposure
Water Resistance	ASTM D 2247 ICC ES (AC212)*	ICC: 14 days exposure No deleterious effects ¹	Tensile strength:160 psi Elongation: 16.8%
Tensile Strength and Elongation	ASTM D 2370	No ICC or ANSI/EIMA Criteria	No water penetration
Wind Driven Rain	Fed TT-C-555	No ICC or ANSI/EIMA Criteria	Passed ABAA Criteria
Nail Sealability	ASTM D1970	No ICC or ANSI/EIMA Criteria	0.002 cfm/ft ² (0.01 l/sec/m ²)
Air Leakage	ASTM E 283	No ICC or ANSI/EIMA Criteria	1.2x10 ⁻⁴ cfm/ft ² @ 1.6psf (0.0006 l/s/m ² @ 75Pa)
Air Permeance	ASTM E 2178	No ICC or ANSI/EIMA Criteria	<0.001 cfm/ft ² @ 6.24 psf (0.05 l/sec m ² @300 Pa)
Air Barrier Assembly	ASTM E 2357	No ICC or ANSI/EIMA Criteria	
Structural Performance	ASTM E 1233 Procedure A ICC ES (AC212)*	ICC: Minimum 10 positive cycles at 1/240 deflection; No cracking in field, at joints or interface with flashing.	Passed
Racking	ASTM E 72 ICC ES (AC212)*	ICC: No cracking in field, at joints or interface with flashing at net deflection of 1/8 in (3.2 mm)	Passed
Restrained Environmental	ICC-ES Procedure ICC ES (AC212)*	ICC: 5 cycles; No cracking in field; at joints or interface with flashing	Passed
Water Penetration	ASTM E 331 ICC ES (AC212)*	ICC: No water penetration beyond the inner-most plane of the wall after 15 minutes at 2.86 psf (137 kPa)	Passed
Tensile Bond	ASTM C 297/E 2134 (formerly EIMA 101.03) ICC ES (AC212)*	ICC and ANSI/EIMA 99-A-2001 Minimum 15 psi (104 kPa)	Substrates: Minimum 19 psi (131 kPa) Flashing: Minimum 431 psi (2970 kPa)
Weathering			
UV Exposure	ICC ES Proc. / ICC ES (AC212)*	ICC: 210 hours of exposure	Passed
Accelerated Aging	ICC ES Proc. ICC ES (AC212)*	ICC: 25 cycles of wetting and drying	Passed
Hydrostatic Pressure Test	AATCC 127 ICC ES (AC212)*	ICC: 21.6 in (549 mm) water column for 5 hours	Passed

* AC212 – Acceptance Criteria for Water-Resistive Coatings Used as Water-Resistive Barriers over Exterior Sheathing, also referred to as ASTM E 2570

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

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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