

PRODUCT DESCRIPTION

Backstop Flash & Fill is a flexible, waterproof material designed to fill sheathing joints, protect rough openings and act as a transition membrane. Backstop Flash & Fill is vapor permeable and eliminates air infiltration for above grade construction.



BASIC USES

Backstop Flash & Fill is designed to fill sheathing joints up to 1/2 in (12.7 mm) and is used to provide an effective water-resistant transition membrane. Backstop Flash & Fill provides continuity of the Dryvit Backstop NT air and water-resistive barrier across various substrate materials (refer to data sheets, DS455, Backstop NT and DS806 Backstop NT For Use Beneath Claddings Other Than Dryvit EIFS).

FEATURES & BENEFITS

FEATURES

- Gun applied, no mesh required
- Vapor permeable
- Fills sheathing joints up to 1/2"
- One component material

BENEFITS

- Quick application
- Will not trap moisture vapor
- Eliminates additional product needs
- No mixing required

PROPERTIES

Drying Time: The drying time is dependent upon the air temperature, wind conditions and relative humidity. Under average drying conditions [70 °F (21 °C), 50% RH] Backstop Flash & Fill will skin within 30 - 60 minutes and dry in 4 - 6 hours.

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

Job Conditions: Surface and ambient temperatures for application of Backstop Flash & Fill shall be between 32 °F (0 °C) and 110 °F (43 °C) for proper curing and drying of the material.

Acceptable Substrates:

- a. Core treated exterior grade gypsum sheathing meeting ASTM C 1396.
- b. Core treated exterior grade gypsum sheathing with fiberglass mat facers meeting ASTM C 1177.
- c. Exterior fiber reinforced cement or calcium silicate boards meeting ASTM C 1325.
- d. APA Exterior or Exposure 1 Rated Plywood, Grade C-D or better.
- e. APA Exterior Grade Fire Retardant Treated Plywood.
- f. APA Exposure 1 Rated OSB.
- g. Unpainted, unsealed concrete and CMU.
- h. Galvanized metal and aluminum.

APPLICATION

Filling Joints, Seams and Cracks

- Sheathing board gaps shall not exceed 1/2 in (12.7 mm) and the surface must be flat within 1/4 in (6.4 mm) in any 4 ft (1.2 m) radius.
- Substrates shall be free of foreign materials such as dirt, dust, oil, paint, wax, water repellants, or other materials that inhibit adhesion. Backstop Flash and Fill will bond and cure in wet weather and on damp surfaces.
- Apply a bead of Backstop Flash & Fill to all sheathing joints, seams and cracks and strike smooth with a dry joint knife, trowel or spatula. Joint widths up to 1/2 in (12.7 mm) may be treated with Backstop Flash & Fill without backer rod.
- Use a dry joint knife, trowel or spatula to tool and spread the Backstop Flash & Fill a minimum of 1 in (25 mm) beyond the sheathing seams on each side to a thickness of 12 - 15 mils (0.30 - 0.38mm).
- Spot fastener heads and strike with a dry joint knife, trowel or spatula.
- Allow Backstop Flash & Fill to skin prior to installing the Backstop NT water-resistive barrier.

Rough Openings

- Apply a bead of Backstop Flash & Fill in each corner of the rough opening and at the sheathing to stud transition, then strike smooth with a joint knife, trowel or spatula.
- Apply Backstop Flash & Fill over the inside of the rough opening and onto the vertical wall surface 4 - 6 in (102 - 152 mm) to create a 12 - 15 mil (0.30 – 0.38 mm) thick, monolithic, pinhole free flashing surface. Note: When using Backstop Flash & Fill with sheet type water-resistive barriers, extend the Backstop Flash and Fill 8 - 10 in (203 - 254 mm) over the face of the exterior wall to ensure positive drainage.
- Allow Backstop Flash & Fill to skin prior to installing the Backstop NT water-resistive barrier.

Flashing Transitions

- Apply a minimum 3/8 in (9.5 mm) bead to the top edge of the termination bar and strike with a joint knife, trowel or spatula. Apply and spread additional Backstop Flash & Fill to create a monolithic flashing membrane that extends 2 in (51 mm) up the vertical face of the exterior wall and over any fasteners securing the termination bar.

PACKAGING

For ease of use Backstop Flash & Fill is a one component material supplied in 20 oz (.59 l) sausages.

COVERAGE

Coverage varies based on surface texture and irregularities. A 20 oz (.59 l) sausage will cover approximately 15 - 17 ft² (1.39 - 1.58 m²) when applied at 12 - 15 wet mils (0.30 – 0.38 mm). When estimating linear footage, extending the material 1 in (25 mm) on each side of sheathing joint will result in approximately 87 - 93 linear feet (26.5 – 28.3 m) per 20 oz (.59 l) sausage applied at 12 - 15 mils (0.30 – 0.38 mm).

STORAGE

Backstop Flash & Fill must be stored at a minimum of 40 °F (4 °C) and a maximum of 110 °F (43 °C) protected from weather and out of direct sunlight.

CLEAN UP

- Clean tools and equipment with mineral spirits or similar solvent immediately after use.
- Follow all safety precautions.
- Remove cured Flash & Fill mechanically using a sharp-edged tool.

TECHNICAL AND FIELD SERVICES

Available on request.

CAUTIONS & LIMITATIONS

- Avoid applying Backstop Flash and Fill in direct sunlight. Always work on the shady side of the wall or protect the area with appropriate shading material.
- Backstop Flash & Fill is not for use as a structural sealant.
- Backstop Flash & Fill does not take the place of through wall flashing.
- Backstop Flash & Fill is not for use below grade or in locations designed to be continuously immersed in water

- Backstop Flash & Fill can be exposed to weather up to 180 days to provide sufficient time for installation of the cladding. Inspect the surface of the Backstop Flash & Fill for any damage, cracks, voids or other detrimental conditions and repair prior to installation of the cladding.

BACKSTOP® FLASH & FILL TESTING

AAMA 714-12 Voluntary Specification for Liquid-Applied Flashing Used to Create a Water-Resistive Seal Around Exterior Wall Openings in Buildings

TEST	TEST METHOD	CRITERIA	RESULTS
Adhesive Strength to Substrates	ASTM C 794	≥ 5 pli	Pass
Water Penetration Around Nails	Modified ASTM D 1970 AAMA 711 Sec. 5.3	Shall pass 1.2" (31 mm) of water	Pass
Accelerated UV Aging Peel Adhesion Appearance	ASTM G 154, UVA cycle 1 ASTM C 794, Visual	≥ 5 pli	Pass
Elevated Temperature Exposure, Level 3=176 °F (80 °C) for 7 days	AAMA 711 ASTM C 794	≥ 5 pli	Pass
Thermal Cycling (10 cycles) Peel Adhesion	AAMA 711 ASTM C 794	≥ 5 pli	Pass
Crack Bridging	ASTM C 1305	Water holdout of 21.65 in (550 mm) for 24 hours with 1/8" (3.2 mm) crack after cycling per ASTM C 1305 for 10 cycles	Pass
Water Immersion	AAMA 711 ASTM C 794	≥ 5 pli	Pass
Water Vapor Permeability	ASTM E 96 Proc, B	Minimum 10 perms at manufacturer's recommended application thickness	Pass – 21 Perms
Damp Surfaces	ASTM C 794	≥ 5 pli	Pass
TEST	TEST METHOD	CRITERIA	RESULTS
Tensile Strength	ASTM D 412	No Criteria	>150 psi
Elongation at Break	ASTM D 412	No Criteria	>350%
Shore Hardness	ASTM C 661	No Criteria	35-45
% Solids – Volume	Lab Procedure	N/A	98%

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