AquaFlash® System DS494

A Liquid-Applied Transition Membrane for Sealing Rough Openings at Windows, Doors and Other Wall Penetrations

Description
AquaFlash Liquid is an extremely flexible, water-based polymer material used in conjunction with AquaFlash Mesh and AquaFlash Corners, non-woven blend fabric, to seal substrates around windows, doors and other openings.

Uses
The AquaFlash System provides an effective, water-resistant transition membrane to provide continuity of Dryvit's Backstop® NT™ air and water-resistive barrier between different substrate materials and to bridge across sheathing joints, at openings, at inside and outside corners, as well as across floor lines.

Benefits
AquaFlash Liquid is used directly from the pail and can be applied using a brush or roller over approved, clean, dry substrates. When applied in accordance with Dryvit recommendations, AquaFlash System can be exposed to weather longer than conventional flashing tape prior to covering with a building cladding or siding. It is easy to apply and fully compatible with Dryvit's Backstop® NT™ as well as all Dryvit adhesives. AquaFlash Corners are designed to be used to reinforce window corners without the need for field cutting and forming.

Coverage and Packaging:
AquaFlash Liquid: Material is supplied in 8 lb (3.6 kg) or 40 lb (18.2 kg) containers. See table below for coverage.

4" Mesh	6" Mesh	9" Mesh
38 lf/lb (25.5 m/kg)	25 lf/lb (16.8 m/kg)	17 lf/lb (11.42 m/kg)

All coverages are approximate and depend upon substrate, details and individual application technique.

AquaFlash Mesh:
The mesh is available in both rolls and pre-fabricated corner pieces. Each roll is 180 lf (54.9 m) in length and packaged as follows:
4 in (102 mm): 9 rolls/box
6 in (152 mm): 6 rolls/box
9 in (229 mm): 4 rolls/box
The AquaFlash Corners are available in 6 in (152.4 mm) widths (152 mm) and packaged 100/box.

Working Time
AquaFlash Liquid provides a working time similar to paint. The product will not set-up in the pail. Keep unused material covered to prevent evaporation. Any surface skin should be removed prior to use.

Drying Time
The drying time of AquaFlash System is dependent upon the air temperature, wind conditions and relative humidity. Under average drying conditions [70 °F (21 °C), 55% R.H.], AquaFlash System will be dry in approximately 30 minutes on absorbent substrates and 1 1/2 hours on non-absorbent substrates.

Performance Requirements
The AquaFlash System has been evaluated in accordance with ICC ES AC148 Acceptance Criteria for Flashing Materials (Self-adhering Flashing) as follows:
Tensile Strength:
(ASTM D 5034 and AC148 Sec. 4.1) - Minimum 39.9 lb/in (7.1 kg/cm) for aged specimen
Nail Sealability: (ASTM D 1970 and AC148 Sec. 4.2) - No water penetration.
Accelerated Aging Prior to Peel Adhesion: (AC148 Sec. 4.3.1.1.1): -25 cycles: 3 hrs at 120 °F (49 °C), 3 hrs water immersion, 18 hrs at -40 °F (-40 °C). No visible damage under 5x magnification.
Peel Adhesion: (ASTM D3330 and AC148 Sec. 4.3) – Peel strength of aged specimens exceeded 75% of control specimens.
Ultraviolet Exposure: (AC148 Sec. 4.4) - 210 hrs - No deleterious effects when viewed under 5x magnification.
Accelerated Aging Prior to Water Resistance: (AC148 Sec. 4.5.2.2) -25 cycles: 3 hrs at 120 °F (49 °C), 3 hrs water immersion, 18 hrs air dry: No visible damage under 5x magnification.
Water Resistance: (AATCC Method 127 and AC148 Sec. 4.5) – No water leakage after UV exposure and accelerated aging cycling.
Pliability: (AC148 Sec. 4.6) - No cracking when bent over 1/8 in (3 mm) mandrel at 32 °F (0 °C).

Acceptable Substrates:
- Exterior grade gypsum sheathing meeting ASTM C 1396 (formerly C 79) requirements for water resistant core or Type X core at the time of application
- Exterior sheathing having a water-resistant core 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, installed with the C face out
- APA Exterior or Exposure 1 Fire Retardant Treated Plywood, Grade C-D or better, nominal 1/2 in (12.7 mm), minimum, installed with the C face out
- APA Exposure 1 Rated Oriented Strand Board (OSB) nominal 1/2 in (12.7 mm), minimum
- Unpainted, unsealed concrete and CMU
- Galvanized metal and aluminum

Surface Preparation
Substrate surfaces shall be sound, dry and free of foreign materials such as dirt, dust, oil, paint, wax, water repellants or other materials that inhibit adhesion. The AquaFlash System can bridge substrate gaps up to 1/4 in (6.4 mm). Larger gaps may require special treatment.

Mixing
AquaFlash Liquid is ready for use after an initial spin-up using a drill with paddle mixer. **DO NOT ADD CEMENT OR ANY OTHER ADDITIVES.**

Application Procedure
Using a brush or 3/4 in (19 mm) nap roller, apply a liberal coat of AquaFlash Liquid material to the substrate surface. Immediately embed the AquaFlash Mesh or AquaFlash Corners into the wet material. Add additional AquaFlash Liquid material and smooth out to remove any wrinkles and fully embed the mesh. Allow to set for a minimum of 15 minutes, apply a second liberal coat of AquaFlash Liquid and smooth out to ensure a uniform continuous film free of voids, pinholes or other discontinuities. Joints in the AquaFlash mesh should overlap a minimum of 2 in (51 mm).

Job Conditions
Air and substrate temperature for application of AquaFlash System must be 40 °F (40 °C) minimum to 100 °F (38 °C) maximum and must remain so for a minimum of 12 hours or until dry. Cool, damp conditions may require longer drying time. 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.

Clean Up
Clean tools with water while AquaFlash Liquid is still wet.

Storage
AquaFlash Liquid shall be stored at a minimum of 40 °F (40 °C) and a maximum of 100 °F (38 °C) in tightly sealed containers protected from weather and out of direct sunlight.

Cautions and Limitations
- Avoid applying AquaFlash System in direct sunlight. Always work on the shady side of the wall or protect the area with appropriate shading material.
- Apply the AquaFlash System to acceptable substrates only.

Technical and Field Services
Available on request.

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