AquaFlash® System DS494

A Liquid-Applied Flashing Material and Mesh 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 to seal substrates around windows, doors and other openings.

Uses
The AquaFlash System provides an effective, water-resistant membrane designed for use with Dryvit systems. It is an acceptable alternative to Dryvit's Flashing Tape. It can also be used to bridge across floor line and other construction joints.

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 Dryvit system. It is easy to apply and fully compatible with Dryvit's Backstop® NT as well as all Dryvit adhesives.

Coverage:
AquaFlash: Material is supplied in 3.6 kg (8 lb) or 18.2 kg (40 lb) containers. See table below for coverage. **AquaFlash Mesh**: The mesh is provided in 102 mm (4 in), 152 mm (6 in) and 229 mm (9 in) width rolls. Each roll is 54.9 m (180 lf) in length. There are 9 rolls of 4 in wide in a box, 6 rolls of 6 in wide in a box, and 4 rolls of 9 in wide in a box. All coverages are approximate and depend upon substrate, details and individual application technique.

	4" Mesh	6" Mesh	9" Mesh
8 lb	91 m (300 lf)	61 m (200 lf)	41 m (133 lf)
40 lb	457 m (1500 lf)	305 m (1000 lf)	203 m (667 lf)

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 [21 °C (70 °F), 55% R.H.], AquaFlash System will be dry in approximately 30 minutes on absorbent substrates and 1½ 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 7.1 kg/cm (39.9 lb/in) 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 49 °C (120 °F), 3 hrs water immersion, 18 hrs at -40 °C (-40 °F). 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 49 °C (120 °F), 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 3 mm (1/8 in) mandrel at 0 °C (32 °F)

Acceptable Substrates:
- 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 12.7 mm (1/2 in) minimum, 4-ply
- APA Exterior Grade Fire Retardant Treated Plywood, nominal 12.7 mm (1/2 in) minimum
- APA Exposure 1 Rated OSB, nominal 11.1 mm (7/16 in) 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 6.4 mm (1/4 in). 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 inch nap roller, apply a liberal coat of AquaFlash Liquid material to the substrate surface. Immediately embed the AquaFlash Mesh 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. **Caution: Use of rubber gloves is recommended when working with this product.**

Job Conditions
Air and substrate temperature for application of AquaFlash System must be 4 °C (40 °F) or higher 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.

Limitations
- Apply the AquaFlash System to acceptable substrates only.
- Temperatures shall be a minimum of 4 °C (40 °F) at time of application.
- Gaps greater than 6.4 mm (1/4 in) shall require corrective measures prior to applying AquaFlash System. Refer to AquaFlash System Installation Guide (DS196).

Storage
AquaFlash Liquid shall be stored at 4 °C (40 °F) or above in tightly sealed containers, protected from weather and out of direct sunlight.

Warranty
The AquaFlash System is covered by and subject to the terms and conditions of Dryvit's limited materials warranty applicable to the Dryvit system used. Dryvit makes no other warranties expressed or implied. Contact Dryvit for full details.

Technical and Field Services
Available on request.

Dryvit Systems, Inc.
P. O. Box 1014
One Energy Way
W. Warwick, RI 02893
(800) 556-7752
www.dryvit.com

Printed in USA R3:03-30-09