

AquaFlash[®] System

DUK494

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 as follows:

Nail Sealability: (ASTM D 1970) - No water penetration

Tensile Strength:

(ASTM D 412-98a and AC148) - Minimum 7.1 kg/cm (39.9 lb/in) for aged specimen

Pliability: (AC148 Sec. 4.6) - No cracking when bent over 3 mm (1/8 in) mandrel at 0 °C (32 °F)

Water Resistance:

(AATCC Method 167 and AC148 Section 4.5) - No water leakage after UV exposure and accelerated aging cycling

Ultraviolet Exposure:

(ICC ES AC148) - 210 hrs - No deleterious effects when viewed under 5x magnification

Accelerated Aging Cycling:

(Sec. 4.5.2 ICC ES AC148) - 25 cycles: 3 hrs at 49 °C (120 °F), 3 hrs water immersion, 18 hrs air dry: No visible damage under 5x magnification

Accelerated Aging Cycling:

(Sec. 4.3.1.1 ICC ES AC148): - 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

Compatible Substrates:

- Core treated exterior grade gypsum sheathing meeting ASTM C 79
- Fiber glass faced exterior grade gypsum sheathing meeting ASTM C 1177
- Exterior grade cement board, concrete or masonry
- APA Exterior Grade Plywood, Grade C-D or better and wood lumber
- 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 approved substrates only, at temperatures above 4 °C (40 °F). Gaps greater than 6.4 mm (¼ in) shall require corrective measures prior to applying AquaFlash System. Refer to AquaFlash Installation Guide (DS196). The AquaFlash System should not be used over pressure-treated wood substrates.

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.

Technical and Field Services

Available on request.

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.