VOLCANO™
CONSTRUCTION PRODUCTS

UV Ultra+ Fire™

Designed specifically with residential and commercial applications where there is a risk of fire spreading up a building façade.

- Built to withstand the toughest conditions, whilst allowing your building to breath, reducing the risk of mould and condensation damage to your building.
- Approved for open joint cladding systems with up to 5cm openings.
- Up to 12months UV exposure prior to cladding system being installed.

Product Specifications

Vapour permeability:

14 perms

Available sizes:

1.5m x 30m (45m^2) and 1.5m x 50m (75m^2)- adhesive lap joint and non adhesive

100mm lap joint adhesive which can be stapled or nailed (UV+ Flex 60 must be applied over penetrations)

Warranty:

20 years product, 25 years system. (10 years labour inclusive- limited*)

Technical Specifications

Fire rating	EN13501-1	Class B
Water resistance	EN1928/EN1027	W1 – 600Pa
After Age (12 months UV exposure)	EN 1297/1296	W1 – 600Pa
Max tensile strength – lengthwise/ crosswise	EN 12311-1	400/230N ± 15%
Service Temperature	EN13859-1	-40 to +150
Diffusion	EN ISO 12572	Sd-value ~0.04
Air resistance	EN 12114	0.1m^3/m^2.h.50 Pa
UV resistance		12 months

ASNZ

AZ/NZS 1530.2 flammability index	1	
Spread of flame length/width	0/0	
ASNZS 4200.1-2017 Class	low	
Test report AWTA		22-003985
Thickness	0.3mm	22-003985
Vapour barrier	Class 3	22-003986

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Warrantable product system:

UV Ultra+ 150 (VCP-UV150) – 150mm x 25m

UV Ultra+ 80 (VCP-UV80) – 80mm x 25m

UV Flex+ 60 (VCP-UV60) – 60mm x 40m

Volcano Hydroflash LA – available in 300ml and 600ml sausage

correct installation with only approved products in system for warranty eligibility.

Storage

Store in shaded, dry conditions and avoid stacking pallets.

Shelf Life

24 months when stored as recommended in original unopened packaging away from UV and weather.

Warranty Notes

Commercial applications need to be inspected prior to warranty being issued, only approved products can be covered in warranty, use of any other product negates all warranty.

Intended Scope of Application

- Volcano UV Ultra+ Fire™ can be applied to the full façade or around the perimeter of windows and doors which project forward from the backing wall in a built-up wall construction such as SFS or timber framed and sheathed walls.
- When using Volcano UV Ultra+ Fire™ for both applications, apply to the window perimeter first, followed by the full façade in order to provide a robust, fully bonded seal around the window interfaces.

The principal purpose of Volcano UV Ultra+ Fire™ is to:

- Prevent water penetration through the window/door perimeter gap or full façade from outside to inside.
- Manage and control moisture migration on the cold side of the wall build up.
- Remain vapour open to prevent localised instances of interstitial condensation from occurring.
- Prevent unplanned air loss around windows and doors.

Volcano UV Ultra+ Fire™ is classified under DIN 4102-1 as B1 (“not easily flammable”), and Class B-s1, d0 (’’very limited contribution to fire’’) under EN13501-1 and conforms with Approved Document B, Requirement B4, Regulation 7.The MPA assessment (report no. 201173) includes Volcano Hydroflash LA. Volcano UV Ultra+ Fire™ is not intended to act as a fire barrier in its’ own right.

Volcano UV Ultra+ Fire™ may add an additional level of protection specifically to the window perimeter joint when applied adjacent to other proprietary fire-resistant materials such as Cavity Closures and Fire Socks that conform to BS476: Part 20.

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Application – for Window Perimeter Sealing

Preparation

Ensure surfaces are clean, dry, free from dust, debris and any other contaminants that may affect adhesion. Beware that the excessive use of pre-applied silicones and or intumescent mastics in the adjacent area may affect the adhesion of SP025. We recommend that silicones and mastics used to seal joints between sheathing boards and concrete interfaces are used sparingly to prevent over-spill into an area where the Volcano Hydroflash LA is likely to be used.

Volcano UV Ultra+ Fire™ can be applied to the entire perimeter of windows and doors that project from the backing wall in a built- up wall construction such as SFS or timber framed and sheathed walls. Suitable for single windows and curtain walling or multiple coupled windows.

To ensure stability of the seal in the early stages of a fire, Volcano UV Ultra+ Fire™ should be bonded to the window/ door frame and the structure (sheathing board) with Volcano Hydroflash LA.

For a detailed step by step guide please refer to Method Statement: "Installation of Volcano Membranes to Windows and Doors – Windows Projecting Externally from Backing Wall".

Fixing to the Frame

Volcano UV Ultra+ Fire™ Membrane at the appropriate width should be positioned with the glossy face outwards and the dull face inwards.

Starting at the sill- apply a consistent minimum 10 mm diameter bead of Volcano Hydroflash LA adhesive in the usual way to the edge of the frame.

Locate the pre-cut length of Volcano UV Ultra+ Fire™ with finger pressure onto the frame.

When satisfied with positioning, consolidate the bond by applying pressure and rolling over the top of the membrane with a seam roller until a small amount of "ooze" is visible at the edge of the membrane. The compressed bead should be approximately 20-30 x 2-3 mm. If it is not possible to apply a consolidated bead of minimum 20 mm, please consult your local Volcano Construction Products distributor.

Cut, fold and seal the corners as per method statement.

Complete application to the jambs and then the head.

Completing the Lap to the Structure

Mark out with a straight edge around the entire perimeter the position where the trailing edge of the membrane will terminate on the sheathing or other structural element.

Mark out another dotted line 15 mm inside the first line around the entire perimeter. This is the position where the Volcano Hydroflash LA adhesive will be applied.

Starting at the sill - Apply a consistent 10 mm diameter bead of Volcano Hydroflash LA adhesive in the usual way onto the dotted line. Locate the trailing edge of Volcano UV Ultra+ Fire™ with finger pressure onto the adhesive ribbon.

When satisfied with positioning, consolidate the bond by applying pressure and rolling over the top of the membrane with a seam roller until a small amount of "ooze" is visible at the edge of the membrane. The compressed bead should be 20-30 x 2-3 mm.

Cut, fold and seal the corners as per method statement.

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Application – For Full Façade Protection

- For connecting to previously applied Volcano UV Ultra+ Fire™ applied as window perimeter seal, bond with Volcano Hydroflash LA or Volcano UV+60 then continue on the façade as below.
- Apply the membrane horizontally, starting from the bottom to ensure natural water run-off, fixing each sheet with staples or Volcano Hydroflash LA adhesive* to the sheathing board or other substrate.
- When applying the membrane from the roll, to achieve maximum UV stability, and to ensure a good bond (if applicable) the outer (fleece) face of the membrane must be orientated towards the structure, and the inner (smooth) face must be left exposed to the UV light.
- For fixing (mechanical or bonding), a supporting area of minimum 30 mm is required.
- For correct joint formation, a minimum overlap of 100 mm is required. Seal the overlap with Volcano Hydroflash LA, Volcano UV Ultra + 150, Volcano UV Ultra + 80, Volcano UV+ 60 tape for a wind tight connection.*
- Mechanical damage, penetrations or connections should be sealed with Volcano Hydroflash LA, Volcano UV Ultra + 150, Volcano UV Ultra + 80, Volcano UV+ 60 depending on the application.*
- When likely to be exposed to weather for an extended time during the construction period, it is recommended that the membrane is adhered around the full perimeter. This prevents damage due to ingress of wind behind the membrane. It is also beneficial to apply dabs of Volcano Hydroflash LA adhesive at approximately 500 mm centres across the surface area to aid membrane stability.

For membrane to membrane overlaps, UV+60 at 60 mm width will comply with the above Regulation 7 due to being considered as a 'seal' and therefore exempt from being non-combustible.

Please Note

When sealing at low thresholds subject to regular or permanent wetting, Volcano UV Utra + 150 Membrane should be used at the sill in conjunction with Volcano UV Ultra+ Fire™ to the head and jambs. Consult your distributor for further information.

The connection of the trailing edge of the membrane to the structure should be completed as soon as possible. Avoid leaving the trailing edge open to the effects of wind to reduce the possibility of damage to the partially installed membrane.

Volcano UV Ultra+ Fire™ on the façade should be adhered (using Volcano Hydroflash LA) to the Range of Membrane tapes at the window interface to ensure continuity of the temporary weather tight line.

An optional termination bar may be considered to provide mechanical retention of the membrane.

Health & Safety Precautions

Safety data sheet must be read and understood before use.