

TREMCO®

Vulkem® 116

Weatherproofing Sealant

One-Part, High-Performance Elastomer

Product Description:

Vulkem 116 is a one-part moisture-curing, gun-grade polyurethane sealant. Vulkem 116 is durable, flexible and offers excellent performance in moving joints. Vulkem 116 does not require a primer on most construction materials.

Basic Uses:

Vulkem 116 is an excellent general purpose sealant designed for use in precast, masonry, window frame perimeters and similar types of construction joints. Vulkem 116 is suitable for continual immersion in water. Vulkem 116 is designed for exterior and interior use.

Limitations:

- Do not apply over damp or contaminated surfaces.
- Use with adequate ventilation.

Packaging:

1/12 gallon (300mL) cartridges, 20 oz. (600mL) sausages, 2 (7.6 L), and 5 (18.9 L) gallon pails and 55 gallon (208 L) drums.

Colors:

Aluminum Stone, Anodized Aluminum, Grey, Limestone, White, Off White, Buff, Precast White, Ivory, Beige, Almond, Hartford Green, Redwood Tan, Stone, Natural Clay, Dark Bronze, Bronze, Light Bronze, Black,

APPLICABLE STANDARDS:

Conforms to U.S. Federal Specification TT-S-00230C, Type II, Class A and ASTM C920, Type S, Grade NS, Class 25, Use NT, M, T, A, I, O, and CAN/CGSD-19.13, MCG-2-25-B-N. Conforms to USDA approval standards.

INSTALLATION

Joint Design:

May be used in any vertical or horizontal joint designed in accordance with accepted architectural/engineering practice. Joint width should be 4 times anticipated movement, but not less than 1/4 inch (6.4mm) wide. Movement should not exceed 25% of the minimum joint width.

Joint Dimensions:

For joints 1/4 inch (6.4mm) to 1/2 inch (12.7mm) wide, the width to depth ratio should be equal. Joints 1/2 inch (12.7mm) wide or greater should have a sealant depth of 1/2 inch (12.7mm). Minimum joint size is 1/4 inch by 1/4 inch (6.4mm by 6.4mm).

Surface Preparation:

For good adhesion, the joint interface must be sound, clean and dry. Depending on the substrates, or presence of form release agents, masonry waterproofings, dust, loose mortar or laitance, architectural paints or finishes, the joint surface may require a thorough wire brushing, grinding, sandblasting, solvent washing and/or primer.

Tooling & Cleaning:

Tooling is recommended immediately after application to insure firm, intimate contact with the joint interface. Dry tooling is preferred. Excess sealant and smears adjacent to the joint can be carefully removed with Xylol or Toluol before sealant cures.



**Joint Backing
Bond Breaking Tape:**

Closed cell polyethylene backer rods are preferred as joint backing to control depth of sealant bead. Where depth of joint will prevent use of joint backing, an adhesive backed polyethylene tape must be installed to prevent three-sided adhesion. Joint backing must be dry at time of sealant application.

Application:

Vulkem 116 is easy to apply with conventional caulking equipment. Fill joint completely and tool. At 75°F (23.9°C), 50% R.H. a durable skin forms within 24 hours. Curing continues at the rate of 1/16 inch

(1.6mm) depth per day. The cure rate is reduced at lower temperatures and less humidity.

Maintenance:

Damaged sealant can be repaired. Consult your Tremco Distributor or Representative for repair procedures.

Availability:

Immediately available from Distributors located throughout the United States, Canada, and overseas.

Warranty:

Tremco warrants its Vulkem Sealants to be free of defects in materials, but makes no warranty as to

appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Tremco makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE, with respect to Vulkem Sealants. Tremco's sole obligation shall be, at its option, to replace, or to refund the purchase price of the quantity of Vulkem Sealant proved to be defective and Tremco shall not be liable for any loss or damage.



TYPICAL PHYSICAL PROPERTIES

ASTM C920 TT-S-00230C	Requirement	Vulkem 116 Results
Rheological Properties at 40 and 122°F. (4.4 and 50°C.)	3/16" (4.8mm) Maximum Flow No Deformation	0 None
Extrusion Rate	45 Seconds Maximum	7
Hardness Properties	15-50 (Shore A)	40
Weight Loss	Less than 10%	9.0
Tack Free Time	Tack Free 72 Hours Maximum	30
Stain & Color Change	No Visible Change No Stain	None None
Durability-Cyclic Movement Adhesion & Cohesion	1-1/2 sq. in. (9.7 cm ²) Max Total Bond Loss	Passes
Adhesion-in-Peel	Not less than 5 pli (22N)	Aluminum-18-22 pli (80-98N) Concrete-20-25 pli (89-111N) Brick-19-23 pli (85-102N) No Adhesion Loss
Effects of Accelerated Weathering	Less than 25% Bond Loss No cracks greater than #2 on U.V. and Cold Temperature Bond Test	Passes

For MSDS and Spec Data Sheets,
visit our website:
www.tremcosealants.com



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