

Vulkem[®] 116

ONE-PART HIGH PERFORMANCE ELASTOMER

Key Benefits Summary

- Excellent performance in moving joints
- Does not require a primer on most construction materials
- Suitable for use in continually immersed applications

PRODUCT INFORMATION

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. Also suitable for varied manufacturing uses such as, production of travel trailers and mobile homes and in assembly of galvanized air conditioning duct work.

LIMITATIONS

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

COLOURS

Black, Grey, Limestone and White.

PACKAGING

Available in 312ml, 590ml, 7.5L.

APPLICABLE STANDARDS

Conforms to U.S. Federal Specification TT-S-00230C, Type II, Class A and ASTM C920-94, Type S Grade NS, Class 25, Use NT, M, T, A, and O. USDA approved.

USAGE GUIDELINES

INSTALLATION

Joint Design:

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

Joint Dimensions:

For joints 6.4mm to 12.7mm wide, the width to depth ratio should be equal. Joints 12.7mm wide or greater should have a sealant depth of 12.7mm. Minimum joint size is 6.4mm x 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 a primer.

Tooling and Cleaning:

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

Joint Backing - Bond Breaking Tape

Closed cell polyethylene and some open cell polyurethane rods may be used 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 23.9°C, 50% R.H. a durable skin forms within 24 hours. Curing continues at a rate of 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.

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Vulkem® 116

TECHNICAL INFORMATION

ASTM C920-94

TT-S-00230C	Requirement	Result
Rheological Properties at 4.4 and 50°C	4.8mm Max. flow	0
Extrusion Rate	No deformation 45 Sec. Max.	None 7
Hardness Properties	15-50	40
Weight Loss	Less than 10%	9.0
Tack Free Time	Tack Free 72 Hours Max.	30
Stain & Colour Change	No visible change No Stain	None None
Durability-Cyclic Movement	9.7cm ² Max	Passes
Adhesion & Cohesion	Total Bond Loss	
Bubble Formation	1.6mm Dia. Max.	Passes
Adhesion in Peel	Not less than 5pli (22N)	Aluminium - 18-22 pli (80-98N) Concrete - 20-25 pli (89-111N) Brick - 19-23 pli (85-102N)
	Less than 25% Bond Loss	No Adhesion Loss
Effects of Accelerated Weathering	No cracks greater than #2 on U.V. and Cold temperature Bond Test	Passes

AVAILABILITY

Vulkem 116 is available through your nearest Tremco office.

HEALTH AND SAFETY PRECAUTIONS

Material Safety Data Sheet must be read and understood before use.

TECHNICAL SERVICE

TREMCO has a team of qualified Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information or service and advice call Customer Service on (02) 9638 2755 or fax (02) 9638 2955.

GUARANTEE/WARRANTY

We warrant our products to be free of defects and manufactured to meet published physical properties when tested according to applicable specifications and TREMCO standards.

Under this warranty we will provide at no charge, product to replace any product proven to be defective when applied in accordance with our written instructions and in applications recommended by TREMCO as being suitable for this product.

All claims concerning product defects must be made within 12 months of shipment. Absence of such claims in writing during this period will contribute a waiver of all claims with respect to such product. This warranty is in lieu of any and all other warranties expressed or implied.

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