

TREMCO

Vulkem[®] 45 SSL

One-Part, Semi-Self Leveling, Sealant

S

Product Description:
Vulkem 45 SSL is a one-part moisture curing, low modulus polyurethane sealant especially developed for sealing joints in level and/or slightly sloped surfaces. The product provides exceptional wear and tear resistance required in high traffic areas.

Basic Uses:
Vulkem 45 SSL is formulated for use in expansion joints in sidewalks, swimming pool decks, terraces, parking decks, plazas, floors and any other horizontal surfaces with slopes up to 6%.

Extraordinary adhesion, cohesion, abrasion and tear resistance are inherent in this base polymer.

The sealant is suitable for use in continuous water immersion.

Limitations:

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

Packaging:

Quart (850 ml) cartridges. Also available in 2 (7.5 L) and 5 gallon (19 L) pails and 55 gallon (208 L) drums.

Standard Color:

White, Limestone, Gray, Black and Buff.

Applicable Standards:
Vulkem 45 SSL Conforms to ASTM C920 Type S, Grade P, Class 100/50, Use T, M, NT, I, A and O. Conforms to CAN2-19.13, MC-1-25 B-N.

INSTALLATION

Joint Design:

For application in moving joints in horizontal or moderately sloped (6% max.) surfaces such as decks, walkways, traffic ramps, reservoirs, etc. Joint width should be 4 times anticipated movement, but not less than 1/4 inch (6.4 mm) wide.

Dimensions:

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

Surface Preparation:

For good adhesion, the joint interface must be sound, clean and dry.

Depending on the substrate, 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 generally not required. Where necessary, light tooling can be done immediately. 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 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 should be installed to prevent three sided adhesion. Joint backing must be dry at time of sealant application.





Application:

Vulkem 45 SSL is easy to apply with conventional caulking equipment. Fill joint completely with a proper width-to-depth ratio.

Maintenance:

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

Availability:

Immediately available from your local Tremco Field Representative, Tremco Distributor or Tremco Warehouse.

Warranty:

Tremco warrants its Vulkem Sealants to be free of defects in material, but makes no warranty as to appearance or color. Since method 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 proven to be defective and Tremco shall not be liable for any loss or damage

TYPICAL PHYSICAL PROPERTIES

ASTM C920 Results	Requirements	Vulkem 45 SSL
Rheological Properties	N/A	Semi-Self-Leveling Levels Moderately* Holds up to 5-6% Slope
Extrusion Rate	20 Seconds Maximum	3-4 Seconds
Weight Loss	Less than 10%	3%
Tack Free Time	72 Hours Maximum	<24 Hours
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) Less than 25% Bond Loss	10-15 pli (44-67N) Concrete None (100% Cohesive)
Effects of Accelerated Weathering	No cracks greater than #2 on U.V. and Cold Temperature Bond Test	Passes
Movement Capabilities	N/A	+100%/-50%
ASTM D412 Method		Vulkem 45 SSL
Tensile Strength		270 lbs. in ² (1.9MPa)
Elongation		700%
Tear Strength		35 pli (156N)

*There is no method specific in ASTM C 920-94 that defines the rheology of a slope grade pourable sealant.

