



TECHNICAL DATA SHEET

VULKEM® MAX

Pro Series Hybrid Sealant for
Dynamic Joints

Product Description

Vulkem® Max is a high-performance hybrid sealant designed for primerless adhesion to a variety of substrates used in construction while maintaining excellent performance in dynamic joints ($\pm 50\%$ movement). Most notably, Vulkem Max demonstrates tenacious adhesion to glass, metal, and concrete without the application of a primer. This advanced hybrid technology provides a durable, waterproof, weather and UV resistant seal that remains permanently flexible over the lifetime of the sealant. Vulkem Max is an extremely versatile sealant that possesses a high degree of flexibility, making it ideal for high-movement expansion and control joints, precast concrete panel joints, and certain other applications where a silicone might traditionally be used.

Basic Uses

Vulkem Max is designed for use with glass, metal, concrete, drywall, wood, and other common construction substrates. It can be used in dynamically moving joints and other applications, requiring a sealant capable of withstanding $\pm 50\%$ joint movement, including, but not limited to:

- Window and door perimeters
- Trim (baseboards, moulding, window and door casings, etc.)
- Weather seals
- Siding
- Expansion and control joints
- Aluminum curtain walls
- Precast concrete panels
- Metal panels
- EIFS

Features & Benefits

Vulkem Max offers primerless adhesion to most construction substrates, $\pm 50\%$ movement capability, and is paintable once fully cured. This allows the use of one sealant for a wider range of applications eliminating complexity in project specifications and on the jobsite. Vulkem Max is 100% waterproof after curing and maintains durability in all weather conditions. The solvent-free formula of Vulkem Max is naturally low odor and low VOC, making it an ideal choice on any jobsite.

- UV resistant
- Paintable with latex paints after full cure
- Rain ready within 30 min of application
- Fast curing
- Suitable for interior and exterior use
- All weather durability

Vulkem Max has been tested with, and provides primerless adhesion to, most common construction substrates, including glass, aluminum, steel and other metals, concrete, vinyl, brick, stone, wood, drywall, plastic, stucco, engineered trim, flexible flashing, Galvalume®, EIFS, and more. Contact Tremco Technical Services for the most complete, up-to-date list of approved substrates.

Vulkem Max meets or exceeds the requirements of the following specification:

- ASTM C920 Type S, Grade NS, Class 50, Uses NT, M, G, A, and O

Availability

10.1 oz (300 mL) cartridges are available from select retailers.

20 oz (600 mL) sausages are available from your local Tremco Sales Representative, Tremco Distributor, or Tremco Warehouse.

Colors

10.1 oz (300 mL) cartridges are available in Gray and White.

20 oz (600 mL) sausages are available in Anodized Aluminum, Black, Bronze, Dark Bronze, Gray, Limestone, and White.

Limitations & Considerations

Vulkem Max should only be used in approved applications. Rain ready time, skin time, tack-free time, and cure time are dependent on several factors, including ambient conditions, substrate surface temperature, and the amount of product applied. Surfaces must be sound and clean. All release agents, existing waterproofing, dust, loose mortar, paints, other finishes, or field applied coatings must be removed. Joint width should be 4 times anticipated movement but not less than 1/4".

Vulkem Max adheres to most wet commonly used construction materials, adhesion strength on wet surfaces may vary. Not suitable for surfaces with frost or ponding water nor is it suitable for continuous immersion in water. Contact your local Tremco Sales Representative or Tremco Technical Services for more information.

For best results: apply to clean, frost-free surface within application temperature range (0 to 140 °F). Refer to Extreme Temperature Vulkem Max Caulking Recommendations Technical Bulletin for more information. For a cleaner finish, mask the sides of the joint with tape prior to filling. Adhesion and compatibility testing is recommended before using on any surface, particularly on porous surfaces. A primer may be necessary for Vulkem Max to achieve maximum adhesion and movement on some porous surfaces, such as mortar and brick.

Although Vulkem Max is paintable with latex paints, this does not imply adhesion to or compatibility with all paints. The sealant must be fully cured before any application of paint. Coating over the sealant before it cures restricts/inhibits the sealant from curing and may adversely affect the coating of paint. Contact Tremco Technical Service at 866-209-2404 with any questions.

Prior to use, Vulkem Max should be stored in its original, unopened, undamaged packaging in a clean, dry, protected location with temperatures between 40 to 110 °F (5 to 43 °C). Once the packaging is opened, the material will begin to cure. Preserving the sealant from developing an undesired cure can be achieved by promptly closing the sealant's container immediately after completion of use, this can be achieved by capping the nozzle with a bead of sealant.

Any reference to the life of a sealant is dependent on expected use in approved applications, adherence to product instructions, suitability of conditions during application, and adherence to industry standard practices. The life of the sealant is not guaranteed and will vary based on these conditions. To achieve the suggested life of performance, use the product as directed. When used as directed and under suggested conditions, the typical lifespan of Vulkem Max is 14 to 16 years.

Contact your local Tremco Sales Representative or Tremco Technical Services for more information.

Warranty

A repair or replacement warranty is available on all commercial Tremco products, including Vulkem Max in 20 oz (600 mL) sausages. Visit <https://www.tremcosealants.com/warranties/> for details.

TYPICAL PHYSICAL PROPERTIES		
PROPERTY	TEST METHOD	TYPICAL RESULTS
Movement Capability	ASTM C719	± 50%
Tooling Time	Skin Formation (ASTM C679)	15 to 25 min
Tack Free Time	ASTM C679	30 to 45 min
Cure Time	1/4" Bead at 75°F	3 to 5 days
Hardness (Shore A)	ASTM C661	+ 20
Tensile Strength at 100% Elongation	ASTM D412	90 to 100 psi (0.62 to 0.69 MPa)
Tensile Strength at Max Elongation	ASTM D412	200 psi (1.38 MPa)
Elongation	ASTM D412	700%
Peel Strength on Dry Aluminum, Glass, & Concrete	ASTM C794	Unprimed: 30 pli (5.2 kN/m); Primed: 50 pli (8.8 kN/m)
Coverage		25 linear feet (0.25" depth, 0.25" width)
Application Temperature		0 to 140 °F (-18 to 60 °C)

Please refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets.

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Tremco Construction Products Group (CPG) brings together Tremco CPG Inc. and its Dryvit and Nudura brands; Willseal; Prebuck LLC; Tremco Barrier Solutions, Inc.; Weatherproofing Technologies, Inc. and its Pure Air Control Services and Canam Building Envelope Specialists offerings; and Weatherproofing Technologies Canada, Inc.



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