Tremco® 830

Thermoplastic, Elastomeric Glass and Siding Sealant

Product Description

Tremco® 830 is a one-part, thermoplastic elastomer that provides a high-performance, flexible seal in glazing and siding applications.

Basic Uses

In glazing applications, Tremco 830 is used for face bedding, cap beads and sealing miter joints in window profiles. For siding applications, use with sill trim, flashings, fascia, J-trim, F-channel, and crown molding. Also used for sealing the perimeters of wood, PVC, and aluminum residential windows and doors.

Features and Benefits

- Wide range of colors to match the popular siding and window tints.
- Fast skinning, fast cure through.
- Easy gunning.
- Excellent weather and UV resistance.
- Can be painted with latex paint.

Availability

Immediately available through Tremco distributors throughout the United States, Canada and overseas.

Coverage Rates

35 linear feet of joint per 10.1-oz (300-mL) cartridge for a 1/4" x 1/4" joint. For specific coverage rates that include joint size, and usage efficiencies, visit our website usage calculator at tremcosealants.com.

Packaging

10.1-oz (300-mL) cartridges, 20-oz (600-mL) sausages

Colors

Clear, Polar White, Arctic White, Ivory, Linen, Gray Stone, Slate Gray, Pearl Gray, Clay, Sandalwood, Translucent, White, Buff, Prestige Beige, Colonial Red, Forest Green, Timbertone, Chocolate Brown, Dark Brown, Black

Storage

Store Tremco 830 in original, undamaged packaging in a clean, dry, protected location.

Limitations

- Do not apply Tremco 830 over damp or contaminated surfaces.
- Do not use in contact with polystyrene, insulated glass seals or laminated glass.
- Always utilize the accompanying MSDS for information on Personal Protective Equipment (PPE) and health hazards.

Substrate Preparation

Surfaces must be sound, clean and dry. All release agents, existing waterproofing, dust, loose mortar, laitance, paints or other finishes must be removed. This can be accomplished with a thorough wire brushing, grinding, sandblasting or solvent washing, depending on the contamination.

Tremco recommends that surface temperatures be 40 °F (5 °C) or above at the time the sealant is applied. If the sealant must be applied in temperatures below 40 °F, please refer to the Tremco Guide for Applying Sealants in Cold Weather that can be found on our website at www.tremcosealants.com.

Application

Apply Tremco 830 with conventional caulking equipment filling the joint from the bottom first.

Immediately tool the sealant with a spatula to ensure intimate contact with the joint walls. Dry tooling is always preferred, although xylene can be used in limited amounts to slick the spatula if needed.

For window and door perimeter fillet bead applications, a 1/4" minimum surface area is recommended.

Priming

Tremco 830 adheres to common construction substrates without primers; however, Tremco always recommends that a mock-up or field adhesion test on the actual materials being used on the job be conducted to verify adhesion. The field adhesion test can be found in Appendix X1 of ASTM C 1193, Standard Guide for Use of Joint Sealants.

Joint Design

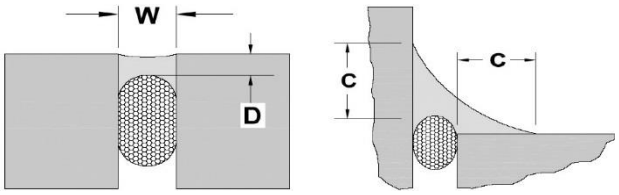
Tremco 830 may be used in any vertical or non-traffic horizontal joint designed in accordance with accepted architectural/engineeering practices. Joint width should be 4 times anticipated movement, but not less than ¼" (6.4 mm).

Joint Backing

Closed cell or reticulated polyethylene backer rod is recommended as joint backing to control sealant depth and to ensure intimate contact of sealant with joint walls when tooling. Where depth of joint will prevent the use of a backer rod, an adhesive-backed polyethylene tape (bond breaker tape) should be used to prevent three-sided adhesion. All backing should be dry at time of sealant application.

Sealant Dimensions

W = Sealant width, D = Sealant depth, C = Contact area.



EXPANSION JOINTS - The minimum width and depth of any sealant application should be 1/4" by 1/4" (6 mm x 6 mm).

The depth (D) of sealant may be equal to the width (W) of joints that are less than 1/2" wide. For joints ranging from 1/2" to 1" (13 mm to 25 mm) wide, the sealant depth should be approximately one-half of the joint width.

The maximum depth (D) of any sealant application should be 1/2" (13 mm). For joints that are wider than 1" (25 mm), contact Tremco's Technical Service Department or your local Tremco field representative.

WINDOW PERIMETERS – For fillet beads, or angle beads around windows and doors, the sealant should exhibit a minimum surface contact area (C) of 1/4" onto each substrate.

Cure Time

At 72 ˚F (22 ˚C), Tremco 830 will develop a robust skin in 5 to 10 minutes, and be tack-free in 30 minutes. As the temperatures decrease, the dry time of Tremco 830 will increase. A good rule of thumb is one additional day for every 20 °F decrease in temperature.

Clean Up

Excess sealant and smears adjacent to the joint interface can be carefully removed with xylene or mineral spirits before the sealant cures. Any utensils used for tooling can also be cleaned with xylene or mineral spirits.

Warranty

Tremco warrants its Products 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 Tremco Products. Tremco's sole obligation shall be, at its option, to replace, or refund the purchase price of the quantity of Tremco Products proven to be defective and Tremco shall not be liable for any loss or damage.

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

NOTE: All Tremco Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUES
Rheological Properties	ASTM C639	0 Flow, No deformation <1/8" (<3.0 mm)
Extrusion Rate	ASTM C661	Pass
Hardness Properties	ASTM C661	20 to 30
Weight Loss	ASTM C679	9%
Skin Time	ASTM C679	30 minutes
Tack Free Time	73.4°F (23°C) 50% RH	5 to 10 minutes
Stain and Color Change	ASTM C510	No visible color change, No stain
Adhesion to Aluminum	ASTM C794	11 to 12 pli (2.0 kN/M)
Adhesion to Wood	ASTM C794	15 to 17 pli (3.0 kN/M)
Adhesion to PVC	ASTM C794	15 to 17 pli (3.0 kN/M)
Adhesion to Glass	ASTM C794	15 to 17 pli (3.0 kN/M)
Effects of Accelerated Aging	ASTM C793	Pass

Tremco Commercial Sealants & Waterproofing

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