

Tremco® Butyl Sealant

General Purpose Butyl Sealant

Product Description

Tremco Butyl Sealant is formulated from a blend of butyl rubber and polyisobutylene to form an economical, flexible sealant.

Basic Uses

Tremco Butyl Sealant is used for sealing joints in applications such as curtainwall joints, metal panel joining, bedding thresholds, secondary glazing seals, and areas where a seal is required against Tremco Neoprene or EPDM gaskets.

Features and Benefits

- Excellent primerless adhesion to most common substrates such as wood, metal, glass, concrete, and masonry surfaces.
- Up to 10% movement capability
- Good exterior grade, weather resistant caulk
- Economical flexible sealant

Colors

White, Aluminum Stone, Black

Packaging

300 ml (10.1 oz.) cartridges, 5-gallon (18.9 L) pails.

Availability

Tremco Butyl Sealant is immediately available through Tremco distributors throughout the United States, Canada, and overseas.

Coverage Rate

35 linear feet of joint per 10.1 oz (300ml) 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

Applicable Standards

Tremco Butyl Sealant meets or exceeds the requirements of the following specifications

- Conforms to U.S. Federal Specification TT-S-001657, Type 1
- ASTM C 1311
- CAN/CGSB 19-GP-14M, QPL 81002

Joint design

Tremco Butyl Sealant may be used in any vertical or horizontal joint designed in accordance with accepted architectural/engineering practices. Joint width should be 4 times anticipated movement, but not less than 1/4" (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 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.

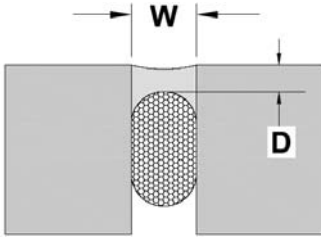
TYPICAL PHYSICAL PROPERTIES

The following results are based on most recent testing performed.

| | |
|--------------------------------|-----------------|
| Bubble Formation (TT-S-001657) | Pass |
| Tenacity (TT-S-001657) | Pass |
| Slump (TT-S-001657) | Pass |
| Extrudability (TT-S-001657) | 1.5 – 3.0 s/ml |
| Tack Free Time (TT-S-001657) | Pass, <24 hours |
| Shrinkage | 5 – 10% |

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" (6mm by 6mm).

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 1/4" to 1" (6mm to 25mm) wide, the sealant depth should be approximately one-half of the joint width.

The maximum depth (D) of any sealant application should 1/2" (13mm). For joints that are wider than 1" (25mm) 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.

Surface preparations

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 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.

Priming

Tremco Butyl Sealant 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.

Application

Apply Tremco Butyl Sealant 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.

Cure time

Tremco Butyl Sealant generally cures at a rate of 1/16" per day at 75°F (24°C) and 50% relative humidity. It will be tack free in one day. The cure time will increase as temperatures and/or humidity decrease. A good rule of thumb is one additional day for every 10°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.

Limitations

- Do not apply Tremco Butyl Sealant over damp or contaminated surfaces.
- Do not apply to joints where movement will exceed $\pm 10\%$.
- Always utilize the accompanying MSDS for information on Personal Protective Equipment (PPE) and health hazards.

Warranty

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

