

DIVISION 7

Joint Sealant
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POLYURETHANE SELF-LEVELING SEALANT

PRODUCT No. 8660-10

PRODUCT DESCRIPTION

QUIKRETE® Polyurethane Self-Leveling Sealant is a superior self-leveling one-component, permanently flexible multipurpose sealant.

PRODUCT USE

QUIKRETE® Polyurethane Self-Leveling Sealant offers primer-less adhesion to most common materials in the building industry. It has been specifically developed for flowing into horizontal crevices and ideal for general purpose horizontal sealing applications. QUIKRETE® Polyurethane Self-Leveling Sealant is non-staining, resistant to moisture and staining, and has virtually no shrinkage.

QUIKRETE® Polyurethane Self-Leveling Sealant may be used for:

- Waterproofing horizontal expansion joints in sidewalks, driveways, industrial floors, parking decks, etc.
- A variety of general purpose joint sealing applications
- End dams in glazing systems
- Flashing & below grade waterproofing membranes

SIZES

QUIKRETE® Polyurethane Self-Leveling Sealant is available in gray 10.1 oz (300 ml) and 29 oz (858 ml) tubes. The 29 oz (858 ml) size is also available in sandstone.

YIELD

12 lineal feet (3.7 m) at ½" x ¼" (12 x 6 mm) joint per 10.1 oz (300 ml) tube

TECHNICAL DATA

QUIKRETE® Polyurethane Self-Leveling Sealant meets ASTM C 920, Type S, Grade P, Class 25, Use T, M, G, A, O; Federal Specification TT-S-00230C, Type I, Class A; CSA CAN/CGSB 19.13-M87. Meets California Air Resources Board 2008 requirements for volatile organic compound (VOC) content.

QUIKRETE® Polyurethane Self-Leveling Sealant, when tested in accordance with standard procedures, provides typical results as listed in Tables 1 and 2.

TABLE 1 TYPICAL PHYSICAL PROPERTIES – AS SUPPLIED

Tack-Free Time at 73°F (25°C), 50% RH	2 Hours
Cure Time at 77°F (25°C), 50% RH	1/16" (1.6 mm) per 24 hours
Flow	Self-levels
Viscosity (cps)	40,000



TABLE 2 TYPICAL PHYSICAL PROPERTIES – AS CURED

Dynamic Joint Movement	+/- 25%
Peel Strength	25 pli (111 N)
Durometer Hardness, Shore A	40
Ultimate Tensile Strength	300 psi (2.1 MPa)
Elongation	725%
Modulus @ 100% Elongation	150 psi (1.0 MPa)

INSTALLATION

NOTE: It is recommended that gloves be worn during application. QUIKRETE® Polyurethane Self-Leveling Sealant is difficult to remove from skin and clothing. If sealant gets on skin, immediately wipe off with a dry cloth.

APPLICATION

SURFACE PREPARATION

The key to long-term sealant and adhesive performance is proper substrate preparation. The substrate must be clean, dry, frost free, sound and free of any oils, greases, or incompatible sealers, paints or coatings that may interfere with adhesion and good joint performance. Porous surfaces should be cleaned of dust & debris from fabrication or job site dirt before cleaning using a stiff brush or using oil & moisture free compressed air. Mechanical methods, such as wire brushes, grinders, etc. may be required to remove surface contamination, debris and failed sealants such as in re-caulking applications.

JOINT DESIGN

A thin bead of sealant will accommodate more movement than a thick bead. Working joint depths should never exceed ½" (12 mm) or be thinner than 1/8" (3 mm), ideally ¼" (6 mm). The ratio of joint width to depth should be 2 to 1. Joints should be designed or cut to work well within the movement capability of the sealant allowing for erection and installation tolerances, time of year of installation and sealant movement capability. QUIKRETE® Backer Rod (#6917) should be used depending on application, to prevent three sided adhesion. If joint depth does not allow for backer rod installation, use polyethylene bond breaker tape.

METHOD OF APPLICATION

Avoid applying sealants below 40°F (4°C) unless following specific instructions for cold weather caulking. Also avoid applying sealants in ambient conditions where threat of rain is imminent. If ambient temperatures exceed 85°F (29°C) and particularly when substrates will be exposed to direct sunlight, check surface temperatures to be sure they don't exceed the maximum recommended for the sealant, for example 140°F (60°C) for polyurethanes and certain silicones. Mask adjacent surfaces to be sealed if necessary to ensure neat sealant lines and minimize clean up. Avoid placing masking in areas to be sealed. Remove masking immediately after placing sealant. Apply sealant using consistent, positive pressure to force sealant into the joint.

CLEAN UP

Excess sealant should be cleaned from glass, metal and plastic surfaces while still uncured using a commercial solvent such as toluene, xylene or similar solvent or citrus based cleaners.

CURING

QUIKRETE® Polyurethane Self-Leveling Sealant will achieve full cure in 7 to 14 days. Allow sealant to cure for 72 hours before painting or exposing to traffic. Allow 7 days for temporary water immersion.

PRECAUTIONS

Do not apply to frozen surfaces or through standing water. Do not apply over silicones or in the presence of silicones. Avoid contact with alcohol and solvents during cure. Avoid contact with bitumen, strong acids, and alkalis. Do not apply in high temperatures, high humidity, or if rain is expected before sealant has partially cured or bubbling may occur. Avoid joints that are too deep or damp, as bubbling may occur. Joints between non-porous substrates require slightly longer cure-through time depending on surface area. Protect unopened containers from heat.

WARRANTY

The QUIKRETE® Companies warrant this product to be of merchantable quality when used or applied in accordance with the instructions herein. The product is not warranted as suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of its product (as purchased) found to be defective, or at the shipping companies' option, to refund the purchase price. In the event of a claim under this warranty, notice must be given to The QUIKRETE® Companies in writing. This limited warranty is issued and accepted in lieu of all other express warranties and expressly excludes liability for consequential damages.

The QUIKRETE® Companies
One Securities Centre
3490 Piedmont Rd., NE, Suite 1300 Atlanta, GA 30305
(404) 634-9100 • Fax: (404) 842-1425

** Refer to www.quikrete.com for the most current technical data, MSDS, and guide specifications*

