

POLYURETHANE NON-SAG SEALANT

PRODUCT No. 8660-11

DIVISION 7

Joint Sealant
07 92 00

PRODUCT DESCRIPTION

QUIKRETE® Polyurethane Non-Sag Sealant is a one-component, permanently flexible multipurpose sealant.

PRODUCT USE

QUIKRETE® Polyurethane Non-Sag Sealant cures in the presence of atmospheric moisture to provide a permanently elastic bond to fasten materials which have dissimilar coefficients of expansion. QUIKRETE® Polyurethane Non-Sag Sealant may be used for:

- Vertical or horizontal expansion joints in concrete, stucco or masonry
- Caulking around window and door openings
- Sealing skylights and chimney flashings

SIZES

QUIKRETE® Polyurethane Non-Sag Sealant is available in 10.1 oz (300 ml) tubes

YIELD

12 lineal feet (3.7 m) at ½" x ¼" (12 x 6 mm) joint

TECHNICAL DATA

Applicable Standards

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

QUIKRETE® Polyurethane Non-Sag 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 77°F (25°C), 50% RH	2-4 Hours
Cure Time at 77°F (25°C), 50% RH	1/8" (3 mm) per 24 hours
Sag or Slump	Nil
Extrusion rate (grams/minute)	400

INSTALLATION

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



TABLE 2 TYPICAL PHYSICAL PROPERTIES – AS CURED

Dynamic Joint Movement	+/- 25%
Peel Strength	35 pli (156 N)
Durometer Hardness, Shore A	25
Ultimate Tensile Strength	275 psi (1.9 MPa)
Elongation	800%
Modulus @ 100% Elongation	95 psi (0.7 MPa)
Sag or Slump	Nil

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 tooling sealant. Apply sealant using consistent, positive pressure to force sealant into the joint. Tool sealant to thoroughly wet out joint surfaces, ideally using a tool with a convex profile to create a concave sealant joint that maximizes the thickness at the bond line and minimizes it at the center of the joint. Do not use soapy water or other liquids when tooling.

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 Non-Sag 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 curing silicones. Avoid contact with alcohol and solvents during cure. Application to moisture-laden substrate can cause bubbling to occur. Protect unopened containers from heat. Do not apply over freshly treated wood. Allow treated wood to age at least 6 months.

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.

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

