

PRODUCT IDENTIFICATION

DURATHANE SEALANT

#50407T – Aluminum Gray
#50417T – White
#50437T – Bronze
30 – 11 oz. tubes per case

POLYURETHANE SEALANT

Description

DURATHANE SEALANT is a premium gun-grade, moisture-cured, one-component polyurethane sealant. It is not displaced by movement or expansion and is non-sagging. DURATHANE SEALANT can be applied over a variety of construction materials, including concrete, metal, glass, and wood. It is recommended for use with several Republic product systems. DURATHANE SEALANT is suitable in certain water immersion applications. It can be exposed to sunlight and is resistant to weathering. Upon curing, DURATHANE SEALANT can be topcoated.

Uses

DURATHANE SEALANT seals, adheres, and caulks metal seams, around protrusions and rake flashings on metal roofs, walls, glazing, curtain wall joints, retaining walls, flashing reglets, precast concrete panel joints, perimeter

caulking (doors and panels), and many other applications.

Advantages

Because DURATHANE SEALANT is suitable in certain water immersion applications and is resistant to weathering, it is the ideal sealant for harsh environments. Its formulation makes it compatible with many substrates, giving it a wide range of applications. This eliminates the need for multiple sealants.

Limitations

Application temperature shall be above 40°F. Allow surface to dry thoroughly prior to application. Maximum use temperature is 180°F continuous. Shelf life is approximately six months.

Specifications Met

DURATHANE SEALANT meets Federal Specification TT-S-00230C, Type 2, Class A and ASTM C 920-79, Type S, Grade Non-Sag NS, Class 25.

Coverage

One 11-oz. tube of DURATHANE SEALANT will cover approximately 27 lineal feet at 1/4" width x 1/4" depth. The size of the joint dictates the actual coverage. The amount shown is intended as minimum application information.

Preparation

For good adhesion, the joint interface must be sound, clean, and dry. It is essential to remove all moisture, powder, dirt, grease, oil, and other foreign matter,

TECHNICAL DATA

Dry Time	To touch in 24 hours (Note: Curing continues at a rate of 1/16" depth per day) Full cure 4-7 days
Solvent	Excellent
Wind/moisture	Excellent
Salt	Excellent
Mild Dilute Acids	Excellent
Clean Up	Xylo/Toluol

TYPICAL PHYSICAL PROPERTIES ASTM C-920-79/TT-S-00230C

Rheological Properties @ 40°F and 122°F	0/None
Extrusion Rate	7
Hardness Properties	40
Weight Loss	9.0
Tack Free Time	30 hrs.
Stain and Color Change	None/None
Durability/Cyclic Movement	Passes
Bubble Formation	Passes
Adhesion-in-Peel	Aluminum 18-22 pli Concrete 20-25 pli Brick 19-23 pli
Effects of Accelerated Weathering	Passes


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DURATHANE SEALANT

including any previous waterproofing or dampproofing materials. Cleaning may be done by wire brushing, grinding, or sandblasting.

Application

Joint Design: May be used in any vertical or horizontal joint designed in accordance with accepted glazing or architectural/engineering practice. Joint width should be 4 times anticipated movement, but not less than 1/4" wide. Movement should not exceed 25% of the premium joint width. For joints 1/4" to 1/2" wide, the width to depth ratio should be equal. Joints 1/2" wide or greater should have sealant depth of 1/2". Minimum joint size is 1/4" x 1/4" except when glazing where cap bead minimum size is 1/8" wide and 1/4" deep.

Joint Backing: Bond breaking tape – closed cell polyethylene and some open cell polyethylene rods may be used as joint backing to control depth of sealant bead. Where depth of joint will prevent use of joint backing, an adhesive backed polyethylene tape must be installed to prevent three-sided adhesion. Joint backing must be dry at time of sealant application. DURATHANE SEALANT is compatible with preformed tapes and bedding compounds used in glazing.

DURATHANE SEALANT is easy to apply with conventional caulking equipment. Fill joint completely

and tool. At 75°F and 50% relative humidity, a durable skin forms within 24 hours. Curing continues at the rate of 1/16" depth per day. The cure rate is reduced at lower temperatures and less humidity.

Tooling and Cleaning: Tooling is recommended immediately after application to ensure firm, intimate contact with the joint interface. Dry tooling is preferred, although tooling agents can be utilized. Excess sealant and smears adjacent to the joint can be removed with Republic Thinner #1 before sealant cures.

Maintenance

It is recommended that the coated area be checked on a regular schedule with additional inspections after the system has been exposed to severe weather conditions. Small area touch-up can be made at any time by following recommended application procedures.

Technical Services

Technical advice or service on suitability of material for specific application and end-use requirements is available from the manufacturer. Refer to label and Material Safety Data Sheet (MSDS) for precautionary information.



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The information provided on this data sheet is effective as of July 2008 and supersedes all previous data concerning this product and its application.

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