



TechSeal S1010 Sealant

Single Component, Elastomeric, Self-leveling Polyurethane Sealant

Description: S1010 is a pour able, non-priming, self leveling elastomeric polyurethane designed for expansion joints in concrete floors, decks, for pedestrian/vehicular traffic. It provides excellent abrasion resistance and flexibility. S1010 is a single component polyurethane which cures by reaction with atmospheric moisture to become a tough, durable rubber elastomer.

Uses

Pedestrian Traffic-Light to Heavy Duty
Balconies
Industrial Floors
Plazas
Vehicular Traffic
Parking ramps

Expansion Joints
Interior and exterior
Pitch Pans
Sidewalks
Driveways
Loop Sealant

Features

Easy to apply
Abrasion resistant
Movement +/- 25%
Nonpriming
Excellent weatherability
Self leveling
Chemical resistant
Colors

Pour able, installs/cures quickly
Firm elastomer, durable/long wearing
Expands/contracts with joint movement
Excellent adhesion to most substrates
UV resistant, long-lasting performance
No tooling required
Resists chloride and most solvents
Black, and Grey

Typical Physical Properties

Test

Solids
Viscosity (Brookfield)
Elongation (ASTM D-412)
Tensile Strength (ASTM D-412)
Hardness (ASTM D-4420)
Water Absorption (ASTM D-471)
Weight per gallon
Cure Time (77F 50% RH)
Weathering (ASTM G-26)

Results

92%
25,000 cps
600%
975 psi
65 shore A
<1%
9.3 lbs/gal
3-6 hours tack free
Excellent

How to Apply

Joint Preparation

The area design should include enough joints so each joint does not exceed +/- 25% movement

The depth of the sealant should be ½ the width of the joint

The maximum depth of the sealant is ½ inch, and minimum is ¼ inch.

Sealant depth must be controlled with backer rod or expansion joint filler. Other caulks or sand should not be used as fillers.

Sealant should be applied at temperatures above 30 F. Surfaces must be clean and dry with no moisture or frost.

Surface Preparation

All surfaces must be clean, dry and free of grease, oil, and form release agents.

New concrete or concrete must be cured a minimum of 7 days...

Clean dirty surfaces using pressure wash, grinding or wire brush

Remove all wire ties, and fill all voids/cracks with good cement-based patching material.

Priming

For most applications, priming is not required. Joints subject to frequent water immersion must be primed. Surfaces other than clean, cured concrete should be tested for adhesion. Verify adhesion using ASTM D 3359, Measuring by Tape, Method A. On the 0-5 scale, a minimum adhesion of 4A is required.

Application

Fill joints by pouring sealant from a spouted container. Adjust spout size for the size of the joint.

Fill joint uniformly from the bottom of the joint. Sealant will self level for a clean surface.

Maximum depth of S1010 should be ½ inch. Backer rod, joint fillers should be tightly installed to control the depth (thickness) of the S1010 sealant and prevent the sealant from flowing out.

Precautions

Do not apply polyurethane sealants when rain is expected during the cure time

Do not allow S1010 to come in contact with water or alcohols.

Do not apply S1010 in vicinity of uncured silicone materials

Some applications subject to extreme pressure from puncture will require a stiff, high density backer rod material.

Sealant may bubble from damp/wet substrate, high humidity, or if material is applied too deep. Proper application is the responsibility of the user.

Cure Time

Protect joint from dirt and traffic until cured

Curing will vary with temperature and humidity. Cure times assume 77F and 50% RH. Lower temperatures will require longer cure times

Tack free: 3-6 hours

Foot traffic: 2 days

Full cure: 3-6 days

Clean-Up

Clean equipment with mineral spirits immediately after use.

Caution!!!!

Contains polyurethane resin and mineral spirits. Avoid prolonged and repeated contact with skin. Do not take internally. Avoid breathing vapors during and after application. Use in well ventilated areas. Appropriate respirator (MSHA/NIOSH) must be worn by applicator and others in the area of application. **Do not use near open flame or burner. Keep away from heat, flame or sources of ignition. Keep out of the reach of children**

Storage

Keep S1010 cool in hot weather, warm in cool weather by storing indoors.

Warranty

Important: while the information and data contained herein are presented in good faith and believed to be reliable, they do not constitute part of our terms and conditions of sale. Nothing herein shall be deemed to constitute a warranty express or implied that said information or data are correct or that the products described are merchandise or fit for a particular purpose, or that said information data products can used without infringing patents of third parties. TechSeal's sole warranty is that the product will meet the specifications at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase prices or replacement of any product shown to be other than as warranted



6466 150TH STREET • PRIOR LAKE, MN 55372

PLANT: 14355 STATE HWY 27 WEST, KENSINGTON, MN 56343

TEL 952 447 6344