Shep Select Self-Leveling

Self-Leveling Joint Sealant

Description

Shep Select Self-Leveling is an elastic, one-component, self-leveling, premium-grade polyurethane sealant specifically developed to be used as a multipurpose horizontal jointsealant in applications where a high chemical resistance to fuels, oils, and hydrocarbons is required. The product is a moisture cure sealant with excellent adhesive properties and resistance to aging and weathering.

Uses

Shep Select Self-Leveling is used to seal horizontal expansion joints in concrete and cementitious slabs, such as sidewalks, balconies, pavement, terraces, warehouses, factories, civil structures, plazas, runways, and pitch pans.

Features & Benefits

- One-component, no mixing.
- Self-leveling.
- Non-bubbling formula.
- Can be applied to green concrete.
- Movement capacity of +/-25%.
- Accelerated curing.
- Jet fuel resistant.
- Permanently elastic.
- High durability.
- Resists aging and weathering.
- Excellent adhesion.
- Convenient, easy-to-use packaging.
- Low VOC content.

LEED Information

May help contribute to LEED credits:

- EQ Credit 4.1: Low Emitting Materials - Adhesives and Sealants
- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials

Primary Applications

Surface Preparation: Clean all surfaces. Joint walls must be sound, clean, dry, frost-free, and free of all oil and grease. Curing compound residues and any other foreign matter must be thoroughly removed. Install bond breaker tape to prevent bond at base of joint. When applying to green concrete, wait 24 hours after forms have been removed. Concrete can be damp during application, but do not apply when standing water is in or near joints.

Priming: Priming is not usually necessary. Substrates only require priming if testing indicates a need or where sealant will be subjected to water immersion after cure.

Application Methods: Condition material to 65° - 75°F (18.3° - 23.9°C) before using. Sealant should be installed when joint is at mid-range of anticipated movement. Gun sealant into joint opening in one direction and allow sealant to flow and level out as necessary. Tool as required; minimum tooling is necessary. Joint dimensions should allow for ¼" (6.35 mm) minimum and ½" (12.7 mm) maximum thickness for sealant. Proper design is 2:1 width-to-depth ratio. Always use bond breaker tape for support on horizontal joints.

Cleanup: Application tools can be cleaned with toluene or xylene before curing. Afterwards, mechanical cleaning will be required.

Shelf Life

When stored indoors and in original, unopened containers at temperatures between 41° - 77°F (5° - 25°C), shelf life is one year from date of manufacture, except for pails and drums, which have a shelf life of six months.

Packaging

20 oz. (592 mL) Sausages
29 oz. (825 mL) Cartridges
5 gal. (18.93 L) Pails
55 gal. (208.20 L) Drums

Continued on reverse side

Technical Data

Appearance	Pasty
Viscosity @ 74°F (23°C)	Brookfield RVT /spindle 6 / 5 rpm : ca. 15,000 mPa.s
Density @ 73° F (23°C) and 50% RH	1.48 ± 0.02 g/cc
Application Temperature	40 - 100°F (4.4 - 37.8°C)
Skin Formation Time @ 74°F (23°C) and 50% RH	60/120 minutes
Shore A Hardness (ASTM D 2240) 21 Day	35 +/- 5
Temperature Resistance	-40 - 176°F (-40 - 80°C)
Resistance to Dilute Acids and Bases	Average
UV Resistance	Good
Water and Salt Spray Resistance	Excellent
Compatibility w/Paints	Water-Based: Yes Solvent-Based: Test beforehand
Modulus @ Break ASTM D412	>0.6 MPA
Elongation @ Break ASTM D412	>800%
VOC Content	27 g/L

Available Colors

Limestone, Stone Gray, Tan

Coverage

This chart shows the approximate number of lineal feet that can be sealed per gallon. One gallon is approximately 4 cartridges.

Joint Depth	Joint Width						
	1/4" (6.4mm)	3/8" (9.5mm)	1/2" (12.7mm)	5/8" (15.9mm)	3/4" (19.1mm)	7/8" (22.2mm)	1" (25.4mm)
1/4" (6.4mm)	308	205	154	122			
3/8" (9.5mm)				82	68	58	51
1/2" (12.7mm)					51	44	38

When estimating, figure 5 cartridges/gal. (2 cartridges/1.5L).
Cubic in./gal. - 231 (1000 cm3)
Cubic in./cartridge - 21 (344.13 cm3)

For triangular cross-section joints:
1/4" (6.35 mm) each side - 616 linear ft./gal. (49.6 m/L)
1/2" (12.7 mm) each side - 154 linear ft./gal. (12.4 m/L)
3/4" (19.1 mm) each side - 68 linear ft./gal. (5.5 m/L)

Precautions

Allow one-week cure at standard conditions when used in total water immersion applications. Maximum exposure level of chlorine is 5 ppm. Do not cure in presence of curing silicone sealants. Avoid contact with alcohol and other solvent cleaners during cure. Maximum depth of Shep Select Self-Leveling should be ½" (12.7 mm). Do not use caulks, sand, or incompressibles as a bottom in a joint. Do not install when rain is expected before the product develops a substantial skin. Storing at elevated temperatures will reduce shelf life.