



DATA SHEET NO. 4542-000

POURTHANE® SL Self-Leveling Joint Sealant

DESCRIPTION

POURTHANE SL is an elastomeric, one-component, self-leveling, non-bubbling, premium-grade polyurethane sealant specifically developed to be used as a multi-purpose horizontal joint sealant. The product is a moisture cure sealant with excellent adhesive properties and resistance to aging and weathering.

USES

POURTHANE SL is used to seal horizontal joints in concrete, such as sidewalks, balconies, pavement, terraces, warehouses, factories, civil structures, plazas, and runways. POURTHANE SL may also be used as a pitch pan sealant.

FEATURES/BENEFITS

- One-component, no mixing.
- Self-leveling.
- Non-bubbling formula can be applied in green or damp concrete.
- Movement capacity of +/-25%.
- Accelerated curing.
- Highly resistant to fuels, including jet fuel.
- Resistant to incidental exposure to ethanol.
- Permanently elastic.
- High durability.
- Resists aging and weathering.
- Excellent adhesion.
- Convenient, easy-to-use packaging.
- Low VOC content.

PACKAGING

825 mL (29 Oz.) Cartridges (12/Carton)
18.9 L (5 Gal.) Pails
208.2 L (55 Gal.) Drums

AVAILABLE COLOURS

Limestone, Gray, Desert Tan

COVERAGE

This chart shows the approximate number of lineal feet that can be sealed per litre. One litre is approximately 1.5 cartridges.

Joint Depth	Joint Width						
	6.4 mm (1/4")	9.5 mm (3/8")	12.7 mm (1/2")	15.9 mm (5/8")	19.1 mm (3/4")	22.2 mm (7/8")	25.4 mm (1")
6.4 mm (1/4")	24.8	16.5	12.4	9.8			
9.5 mm (3/8")				6.6	5.5	4.7	4.1
12.7 mm (1/2")					4.1	3.5	3.1

When estimating, figure two cartridges/1.5 L (5 cartridges/gal.)

Cm³/L – 1000 (231 cubic in.)

Cm³/cartridge – 825 (50 cubic in.)

For triangular cross-section joints:

6.4 mm (1/4") each side – 49.6 m/L (616 linear ft./gal.)

12.7 mm (1/2") each side – 12.4 m/L (154 linear ft./gal.)

19.1 mm (3/4") each side – 5.5 m/L (68 linear ft./gal.)

SHELF LIFE

When stored indoors and in original, unopened containers at temperatures between 4° - 35° C, shelf life is one year from date of manufacture, except for pails and drums, which have a shelf life of six months.

SPECIFICATIONS/STANDARDS

- ASTM C 920-11, Type S, Grade P, Class 25, Use T₁, T₂, NT, M, G, A, I, O.
- Conforms to BS 5212 for determination of resistance to heat, aging, and fuel immersion.
- Can/CGSB 19.13-M87, Classification C-1-40-B-N and C-1-25-B-N, No. 81028
- Federal Specification TTS-00230C, Type 1, Class A
- Approval/Standards Conform to ISO 11600 F 25 HM

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TECHNICAL DATA

Property	Typical Value	Test Method
Tensile Strength, MPa (psi)	1.23 (180)	ASTM D412
Elongation	785%	ASTM D412
Tear Strength, kN/m (pli)	5.8 kN/m (33 lb./in.)	ASTM D624
Shore A Hardness	30±5	ASTM C661
Movement Capability	±25	ASTM C719
Weathering Resistance	Excellent	ASTM C793
Stain and Colour Change	Pass	ASTM C510
Application Temperature	5° - 40° C	
Service Range	-40° to 82.2° C	
Rheological Properties	Pass	ASTM C639
Peel on Aluminum-Dry	25 c.f.	ASTM C794
Peel on Glass-Dry	26 c.f.	ASTM C794
Peel on Concrete Mortar-Dry	24 c.f.	ASTM C794
Paint Compatibility	Water-Based: Compatible	
	Solvent-Based: Check Compatibility	

APPLICATION

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 or KOOL-ROD™ from W. R. MEADOWS 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. If priming is required, use REZI-WELD™ LV from W. R. MEADOWS.

Application Method ... Condition material to 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 6.35 mm (1/4") minimum and 12.7 mm (1/2") maximum thickness for sealant. Proper design is 2:1 width-to-depth ratio. Always use bond breaker tape or KOOL-ROD from W. R. MEADOWS for support on horizontal joints.

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

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. POURTHANE SL is not resistant to ethanol in fully submerged or continual soaked conditions. Maximum depth of POURTHANE SL 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.

MASTERFORMAT NUMBER AND TITLE

07 92 13 - Elastomeric Joint Sealants

32 13 73 - Concrete Paving Joint Sealants

For most current data sheet, LEED information, and SDS, visit www.wrmeadows.com.

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