

## Precision Seal SL

Self-leveling Concrete Joint Sealant

### Description

Precision Seal SL is a single-component, polyurethane hybrid, self-levelling sealant designed to offer superior adhesion to concrete. Ideal for sealing cracks and joints in driveways, patios, pool decks, porches and sidewalks. It remains flexible for the life of the sealant, between 5-7 years after cure. This low-modulus, moisture-cure sealant is formulated to be extremely durable in dynamic joints and provides superior wear resistance in high traffic areas.

**Color:** Limestone

### Advantages

- Skins rapidly and is tack-free in less than 5 hours @ 75° F (24° C)
- Remains adhesively and cohesively bonded during temperature cyclic movement
- Extraordinary movement capability of +100% / -50%
- Ease of application; dispense and walk away, up to a 6% slope
- Service temperature range: -40° to 185°F (-40° to 85°C)

### Applications:

- Sealing of horizontal joints
- Concrete control & expansion joints
- Sidewalks
- Patios
- Truck terminals
- Plazas
- Swimming pool decks
- Interior or exterior application

### Packaging

- 30 oz. (887 mL) cartridges (12 per case)

### Technical Information

| Test Method | Test Property                | Results  |
|-------------|------------------------------|--|
| ASTM D412   | Tensile Strength             | 250 psi (1.7 MPa)  |
| ASTM D412   | Elongation                   | 600%   |
| ASTM D412   | Tear Strength                | 35 Pli (61.3 N/cm)   |
| ASTM C510   | Stain & Color Change         | No stain / No color change   |
| ASTM C639   | Rheology                     | Grade P (Self-Leveling) will hold up to 6% slope   |
| ASTM C661   | Hardness Shore A             | 43-47  |
| ASTM C679   | Tack-Free Time               | 7 to 8 hours   |
| ASTM C719   | Movement Capability          | +100% /-50%  |
| -           | Skin Time                    | 1.5 to 2 hours   |
| ASTM C794   | Adhesion to Concrete         | Dry: 31 Pli (54.3 N/cm)<br>Submersed: 28 Pli (49.0 N/cm)<br>Green: > 15 Pli (>26.3 N/cm)<br>Saturated (SSD): > 15 Pli (.26.3 N/cm) |
| ASTM C793   | Effects of Accelerated Aging | No cracking or chalking  |

These values may vary depending on environmental factors such as temperature, moisture, and type of substrates. Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.

### Approximate Yield

One cartridge yields 54 in<sup>3</sup> (884 cm<sup>3</sup>), and will cover 72 linear feet (22 m) in a 1/4" x 1/4" (6 mm x 6 mm) joint. One gallon (3.78 L) yields 231 in<sup>3</sup> (3,785 cm<sup>3</sup>).

### Meets:

- ASTM C920, Type S, Grade P, Class 50, Use T, M, A, O, and I (Class 2)
- CAN/CGSB 19.13-M87, MC-1-25-B-N

### Storage / Shelf life:

Shelf life is 12 months in unopened packaging in a cool and dry storage space at temperatures between 41°F and 77°F.

### Precautions / Limitations

Surface temperature of the substrate must be at least 40 °F (4 °C) and rising, but below 150 °F (66 °C), at time of application. Do not use in submerged applications in pools. For best results, store sealant at room temperature prior to application. Contact surfaces must be clean and dry. Do not use underneath a polyurethane deck coating unless the sealant has fully cured. In all cases, consult the Safety Data Sheet before use.

# Technical Datasheet



## DIRECTIONS FOR USE

**Joint Dimensions:** Joint width should be 4 times the expected joint movement, but not less than 1/4" (6 mm). Width to depth ratios should be equal for joints that are 1/4" (6 mm) to 1/2" (13 mm) in width. If joint width is 1/2" (13 mm) to 1" (25 mm), the depth of Precision Seal SL should be 1/2 the width, with 1/2" (13 mm) being the maximum allowable depth of Precision Seal SL.

Use backer rod or bond breaker tape to limit the depth of application and to prevent three-sided adhesion. Applications of Precision Seal SL that are deeper than what is recommended can cause bubbling or incomplete curing of the material. **Surface Preparation:** PRECISION SEAL SL can be installed in new concrete 24 hours after forms are stripped. The concrete can be damp during application, but do not apply sealant where there is standing water in or nearby the joints. Excess standing water will cause bubbling of the sealant. The joints must be clean and sound. All curing & sealing compounds, oil, dirt, debris, paint, form release agents and any other foreign material must be removed. The final step in cleaning should be the complete removal of all residue by solvent wiping the joint.

**Priming:** PRECISION SEAL SL typically bonds to common construction materials without a primer. However, due to the variance in surface textures of some non-porous materials (metal, glass, certain stones, etc.), a field adhesion test is recommended on these materials to verify adhesion or the need for a primer. The field adhesion test for joint sealants is described in ASTM C1193. PRIMER is required to prime the joint facing when the sealant will be in service under water after application and curing. See Primer technical data sheet for use instructions.

**Mixing:** PRECISION SEAL SL is a single-component sealant and requires no pre-blending. It should be used directly from the cartridge. **Placement:** Ensure that all the necessary preparation work is completed. Place backer rod or bond breaker tape into the joints and make sure they are secured in place. Using standard caulking guns, dispense the sealant directly from the cartridge into the joint. Once the joint is full, leave it alone and allow it to self level to a nice and smooth finish. PRECISION SEAL SL will hold a slope up to 6%. **Curing:** PRECISION SEAL SL requires no special curing. The moisture in the air and substrate will cure the sealant. A skin forms on the surface in about 1.5 to 2 hours at 72 °F (22 °C) and 50% relative humidity. It will be tack-free in 7 to 8 hours. PRECISION SEAL SL cures at rate of about 1/16" (1.6 mm) per day. The cure time will increase or decrease as temperatures and humidity levels fluctuate.

## Clean-Up:

Tools, equipment and general cleanup can be done with xylene before the material dries. Removal of dried Precision Seal SL can only be done by mechanical means.

## Health- and Safety Recommendation:

KEEP OUT OF REACH OF CHILDREN. Avoid skin and eye contact. On contact, uncured sealant could cause irritation to skin and eyes. In case of eye contact, flush eyes with warm water for 15 minutes, call a physician. For skin contact, remove sealant with a paper towel. If swallowed, do not induce vomiting, call a physician. Precision Seal is manufactured for professional use only. Refer to Safety Data Sheet (SDS) for further information.

**Shipping:** Shipping Class: Motor Freight Class 60 Hazard Classification: Not Regulated

## Warranty & Disclaimer:

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