

Technical Datasheet

Precision Seal

Self-leveling Concrete Joint Sealant



Description

Precision Seal SL is a self-levelling, polyurethane hybrid sealant designed to offer superior adhesion to concrete and a wide variety of substrates. 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 wear resistance in high traffic areas.

Advantages

- Excellent adhesion on porous and non-porous substrates
- Remains adhesively and cohesively bonded during temperature cyclic movement
- Permanently elastic after full cure
- Self-leveling
- No bubble formation within sealant even in high temperature and humidity applications
- Color stable and UV resistant
- Ecological advantages: free of isocyanates, solvents, halogens and acids
- Minimal health and safety considerations
- Can be painted with water based paints and many other systems (to be tested)
- Good extrudability even at low temperatures
- Excellent weather resistance in all climates
- Primerless adhesion on many different substrates (except where water pressure may occur). Almost odorless
- Made in USA

Color: Limestone

Packaging

- 30 fl. Oz. pro pack (case of 12)

Applications

- Sealing of horizontal joints
- Professional / Commercial Grade

Test Property	Test Results	Test Method
Rheology	Grade P (self-leveling) will hold up to 6% slope	ASTM C 639
Curing system	Moisture cure	
Skin Formation (*)	1.5 to 2 hours	@ 75°F & 50% relative humidity
Tack-free time (*)	7 to 8 hours	ASTM C 679
Curing time (*)	1/16" / day	@ 75°F & 50% relative humidity
Hardness—Shore A	43 - 47	ASTM C 661
Tensile Strength	250 psi	ASTM D 412
Elongation	600%	ASTM D 412
Movement capability	+ 100% / - 50%	ASTM C 719
Stain and color change	Passes	ASTM C 510 (mortar)
Artificial weathering	No cracking	ASTM C 793
Service temperature range	-40°F to 185°F (-40 to 85°C)	
Application temperature range	40°F to 100°F (4 to 37°C)	
Tear Strength	35 pli (61.3 N/cm)	ASTM D412
Effects of accelerated aging	No cracking or chalking	ASTM C793

(*) 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.

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Substrates:

Surface Preparation: clean, dry, free of dust and grease, free of chipping paint.

Resistance to chemical agents:

Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis. Poor resistance to aromatic solvents, concentrated acids, chlorinated hydrocarbons.

Horizontal Joint dimensions:

Minimum width: 1/4" Maximum depth: 1/2"

Recommendation: 2 x depth = width

Minimum Depth: 1/4" - 1/2" width to depth ratio equal 1/2" - 1" 2x depth = width

Remarks:

- May be painted, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application. The drying time of alkyd resin based paints may increase.
- Can be applied to a wide variety of substrates. Due to the fact that specific substrates such as plastics, like polycarbonate, etc. may differ from manufacturer to manufacturer, we recommend preliminary compatibility tests.
- Should not be used for continuous immersion in water.
- Do not use on natural stones like marble, granite due to possibility of staining.
- Lower temperatures and humidity will extend curing time.

Application:

Method: Manual- or pneumatic caulking gun.

Application temperature: 40°F to 150°F.

Cleaning: with IPA immediately after use and before curing.

Meets:

ASTM C 920, Type S, Grade P, Class 50, Use T, NT, M, A, and O**, Federal Specification TT-S-00230C, Type II, Class A.

** See recommended substrates on TDS

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.

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:

Prime Resins, Inc. warrants its products to be free from manufacturing defects and that products meet the published characteristics when tested in accordance with ASTM and Prime Resins standards. No other warranties by Prime Resins, Inc. are expressed or implied, including no warranty of merchantability or fitness for a particular purpose. Prime Resins, Inc. will not be liable for damages of any sort resulting from any claimed breach of warranty. Prime Resins' liability under this warranty is limited to replacement of material or refund of sales price of the material. There are no warranties on any product that has exceeded the "shelf life" or "expiration date" printed on the package label.

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