

Precision Seal



Self-leveling Concrete Joint Sealant

Description

Precision Seal is a self leveling sealant designed to offer superior adhesion to concrete. Ideal for sealing cracks and joints in drive-ways, patios, porches and sidewalks.

Color: Limestone

Advantages

- Excellent adhesion on porous and non-porous substrates
- High performance mechanical properties
- Permanent 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

Packaging

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

Applications

- Sealing of horizontal joints

Test results		
Base	Silyl-terminated polymer	
Sag	Flowable sealant Type I @ 120°F	ASTM C 639
Curing system	Moisture cure	
Skin Formation (*)	50 minutes	@ 75°F & 50% relative humidity
Tack-free time (*)	60 minutes	ASTM C 679
Curing time (*)	24-48 hrs, 1/4" diameter bead	@ 75°F & 50% relative humidity
Hardness—Shore A	30 +/- 5	ASTM C 661
Tensile Yield	150 psi	ASTM D 412
Elongation	400%	ASTM D 412
Movement capability	+/- 25%	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 +200°F	
Application temperature range	-35°F to +140°F	
Shelf life	12 months	Stored between 41°F & 77°F
VOC	2% - 34 g/L	Directive 2004/42/EG

(*) 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.

Technical Datasheet



Substrates:

Surface Preparation: clean, dry, free of dust and grease, free of chipping paint, no adhesion on PE, PP, PTFE and bituminous substrates.

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 width: 1 3/16"
Minimum Depth: 1/5" Recommendation: 2 x 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.
- Bonding plastics like PMMA (ie Plexi[®] glass) and polycarbonate (ie Makrolon[®] or Lexan[®]) in stress loaded applications can give rise to stress cracking and crazing in these substrates. The use of Precision Seal is not recommended in these applications.
- There is no adhesion on PE, PP, PTFE (Teflon[®]), silicones and bituminous substrates.
- Should not be used as a glazing sealant.
- Should not be used for continuous immersion in water.
- Do not use on natural stones like marble, granite due to possibility of staining.
- Do not apply to freshly treated wood; treated wood must have been weathered for at least 6 months.
- Lower temperatures and humidity will extend curing time.
- Contact with plasticizer containing plastics (e.g. flexible PVC,

Butyl rubber, EPDM, etc.) can lead to incompatibilities, such as discoloration or loss of adhesion. We recommend a preliminary compatibility test.

Application:

Method: Manual- or pneumatic caulking gun.

Application temperature: -35°F to +140°F.

Cleaning: with IPA immediately after use and before curing.

Repair with: Precision Seal.

Meets:

ASTM C 920, Type S, Grade P, Class 25, Use T, NT, M, A, G* and O**, Federal Specification TT-S00230C, Type II, Class A.

* Precision Seal is not recommended to be used glazing sealant.

** See recommended substrates.

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.