



## SOUDASEAL 50LM

Revision: 11/17/2016

Page 1 of 2

**Technical Data:**

Base	Silyl-terminated polymer	
Sag	No sag in vertical displ. @ 120°F	ASTM C 639
Curing system	Moisture Cure	
Skin Formation (*)	11 minutes	@ 75°F & 50% relative humidity
Tack-free time (*)	350 minutes	ASTM C 679
Curing time (*)	72 hrs, 1/4" diameter bead	@ 75°F & 50% relative humidity
Hardness – Shore A	25 +/- 5	ASTM C 661
Tensile Yield	350 psi	ASTM D 412
Elongation	>1000%	ASTM D 412
Movement capability	+/- 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 +200°F	
Application temperature range	-35°F to +140°F	
Shelf life	12 months	Stored between 41°F & 77°F
VOC	< 2% - < 28 g/L	EPA method 24

(\*) 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.

**Product:**

Soudaseal 50LM is a low-modulus and high movement SMX® joint sealant.

**Characteristics:**

- tested and conform to ISO 11600-F-25LM
- AAMA approved (see below)
- excellent adhesion and extrudability, even in adverse conditions
- high bond strength on nearly all surfaces
- high performance mechanical properties
- flexible elastic rubber - movement accommodation up to +/-50%
- low modulus - can handle extreme joint movement
- no bubble formation within sealant even in high temperature and humidity applications
- very easy to tool and finish
- 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)
- excellent weather resistance in all climates

- primerless adhesion on many different substrates (except where water pressure may occur) almost odorless

**Applications:**

- expansion and connection joints in the building industry
- sealing of joints in prefabricated buildings
- movement joints in high rise construction
- sealing between window and door frames
- flexible joints in automotive applications
- applications that should be painted with water based paints

**Colors:**

Various

**Packaging:**

10.1 fl. oz. cartridge; (20 fl. oz. sausages upon request).

**Shelf life:**

12 months in unopened packaging in a cool and dry storage place at temperatures between 41°F and 77°F.

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## SOUDASEAL 50LM

Revision: 11/17/2016

Page 2 of 2

**Substrates:**

*Recommended Surfaces:* EIFS, Stucco, Aluminum, Concrete, Masonry, Wood, Stone, Glass, Vinyl, Fiber Cement Siding, Metals, PVC, Kynar 500.

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

*Priming:* Porous surfaces in water loaded applications should be primed with Primer 150. Surface Activator may be used to pretreat non-porous surfaces.

**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.

**Joint dimensions:**

Minimal Width: 1/4"

Maximum Width: 1 1/2"

Minimum Depth: 1/5"

Recommendation: width = 2 x depth

**Remarks:**

- Should not be used as a structural sealant.
- 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.
- Should not be used as a glazing sealant.
- Should not be used for continuous immersion in water.
- 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,...) can lead to incompatibilities, such as discoloration or loss of adhesion. We recommend a preliminary compatibility test.
- We recommend a preliminary adhesion test on every surface.

**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:* Soudaseal 50 LM.

**Meets:**

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

\* Soudaseal 50LM is not recommended to be used as glazing sealant.

\*\* See recommended substrates.

In accordance with AAMA 802.3-10 Type II, 803.3-10 Type I, 805.2-10 Group C and 808.3-10.

**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. SoudaSeal 50 LM is manufactured for professional use only. Refer to Material Safety Data Sheet (MSDS) for further information.

**Limited Warranty:**

SOUDAL warrants product to be of good quality and will replace or, at our election, refund the purchase price of any products proved to be defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement or refund, SOUDAL MAKES NO WARRANTY OR GUARANTEE, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, RESPECTING ITS PRODUCTS, and SOUDAL shall have no other liability with respect thereto. Any claim regarding product defect must be received in writing one (1) year from the date of shipment. No claim will be considered without such written notice or after the specified time interval. User shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith.

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