

SOUDASEAL CL

Revision: 09/01/2015

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Technical Data:

Base	Silyl-terminated polymer	
Sag	No sag in vertical displ. @ 49°C	ASTM C 639
Curing system	Moisture Cure	
Skin Formation (*)	3 minutes	@ 24°C & 50% relative humidity
Tack-free time (*)	30 minutes	ASTM C 679
Curing time (*)	24-48 hrs, 1/4" diameter bead	@ 24°C & 50% relative humidity
Hardness – Shore A	38 +/- 5	ASTM C 661
Tensile Yield	300 psi	ASTM D 412
Elongation	300%	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°C to + 93.3 °C	
Application temperature range	-37°C to + 60°C	
Shelf life	12 months	Stored between 5°C & 25°C
VOC	3% - 30 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.

Product:

Soudaseal Crystal Clear is an SMX® adhesive/sealant. A crystal-clear product without compromising performance.

Characteristics:

- excellent adhesion on porous and non-porous substrates
- high bond strength on nearly all surfaces such as glass, pre-treated timber, PVC, metals, stone, etc.
- high performance mechanical properties
- permanently elastic after full cure - movement accommodation up to +/- 25%
- completely transparent
- no bubble formation within sealant even in high temperature and humidity applications
- very easy to tool and finish
- much better color stability and UV resistance compared to polyurethanes
- 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

Applications:

- all interior and exterior bonding and sealing applications
- transparent and elastic bonding in many different construction and building applications
- invisible bonding of glass and other transparent materials

Colors:

Crystal clear

Packaging:

300ml. cartridges

Shelf life:

12 months in unopened packaging in a cool and dry storage place at temperatures between 5°C and 25°C.

Substrates:

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Substrates:

All usual building surfaces such as glass, pretreated timber, PVC, metals, stone, etc.
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 nonporous surfaces.

While producing plastics, very often release agents, processing aids and other protective agents (like protective foil) are used. These should be removed prior to bonding. For optimum adhesion the use of surface activator is recommended.

NOTICE: 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 Soudaseal CL is not recommended in these applications. There is no adhesion on PE, PP and PTFE (Teflon®), silicones and bituminous substrates.

We recommend preliminary compatibility tests previous to application.

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 for bonding: 1/24"
Maximum width for bonding: 1/8"

Minimal width for jointing: 1/5"
Maximum width for jointing: 3/8"
Minimum depth for jointing: 1/5"
Recommendation for jointing: width = 2 x depth

Application:

Method: Manual- or pneumatic caulking gun.
Application temperature: 5°C to +32°C. *Cleaning:* with IPA immediately after use and before curing.
Repair with: Soudaseal CL.

Meets:

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

* Soudaseal CL is not recommended to be used as glazing sealant.

** See recommended substrates.

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.
- Cannot be used as a structural 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.
- Not suitable for dilatation joints.
- Displays very good UV stability but may discolor in extreme conditions or after many years of exposure.
- 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.

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 CL is manufactured for professional use only. Refer to Safety Data Sheet (MSDS) for further information.

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