

Soudaseal 240 FC

Revision: 11/09/2008

Page 1 of 3

Technical data:

Base	Silyl-terminated polymer	
Sag	No sag in vertical displ. @120°F	ASTM C 639
Curing system	Moisture Cure	
Cure time	24-48 hrs, ¼" diameter bead	@ 75°F & 50% relative humidity
Hardness – Shore A	40 +/- 5	ASTM C 661
Skin Formation (*) (68°F/65% RH)	10 min.	
Specific Gravity	1,67	
Service temperature range	-40°F to +195°F	
Peel adhesion	55-85 lb/in	ASTM C 794
Tensile Yield	250 psi	ASTM D 412
Elongation	750%	ASTM D 412
Total joint movement	+/- 25 %	ASTM C 719
Stain and color change	Passes	ASTM C 510 (no visible stain)
Artificial weathering	Passes	ASTM C 793 (3,000 hrs Xenonarc)
Shelf life	12 months	Stored between 33°F & 80°F

(*) these values may vary depending on environmental factors such as temperature, moisture, and type of substrates

Product:

Soudaseal 240 FC is a water-, solvent-, plasticizer and isocyanates- free, moisture-cure silyl-terminated polymer adhesive/sealant. This High Performance product is engineered for a wide range of sealing and bonding applications.

Characteristics:

- Outstanding bond strength on nearly all surfaces
- High performance mechanical properties
- Flexible elastic rubber – movement accommodation up to ±25%
- Straightforward application even in adverse conditions
- No bubble formation within sealant (in high temperature and humidity applications)
- Very easy to tool and finish
- Good extrudability even at low temperatures
- Colour stable and UV resistant
- Ecological advantages – free of isocyanates, solvents, halogens and acids
- Minimal health and safety considerations
- Can be painted with all water based paints and many other systems (to be tested)
- No staining of porous materials such as natural stone, granite, marble, etc

Applications:

- Sealing and bonding in the building industry.
- Sealing of floor joints and low movement wall joints.
- Structural bonding in vibrating constructions.
- Connection joints in sheet metal fabrication, sealing of air conditioning systems.
- Sealing in sanitary applications.
- Bonding of security and safety glass.
- Supple bonding in carbodies, RV, containers...

Packaging:

Color: black, white, grey, brown, concrete grey, beige

Packaging: cartridge 9.8 fl.oz; foil bag 20 fl.oz (other packaging on request)

Shelflife:

12 months in unopened packaging in a cool and dry storage place at temperatures between 33°F and 80°F

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SODASEAL 240 FC

Revision: 11/09/2008

Page 2 of 3

Adhesion:

Soudaseal 240 FC has an excellent adhesion on almost all substrates. Soudaseal 240 FC has been tested on the following metal surfaces: steel, AlMgSi1, brass, electrolytic galvanised steel, AlCuMg1, flame galvanised steel, AlMg3 and steel ST1403. Plastics that were tested include: polystyrene, polycarbonate (Makrolon®), PVC, ABS, polyamide, PMMA, glasfiber reinforced epoxy and polyester (GRP).

While producing plastics very often releasing agents, processing aids and other protective agents (like protection 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), polycarbonate (ie Makrolon® or Lexan®) in stress loaded applications can give rise to stress cracking and crazing in these substrates. The use of Soudaseal 240 FC is not recommended in these applications.

Surfaces:

Type: all usual building surfaces, most metals, polyesters and many plastics. Not suitable for PE, PP, PTFE (Teflon®), ABS or PMMA (ie Plexi® glass).

Surface Preparation: clean, dry, free of dust and grease

Preparation:

- It is expected that the product will adhere and perform in uncontaminated joints with most common construction substrates, without the use of a primer.
- Porous surfaces in water loaded applications should be primed with Primer 150.
- Surface Activator may be used to pretreat non-porous surfaces.
- We always recommend preliminary compatibility tests previous to application.

Application:

Method: Manual- or pneumatic caulking gun

Application temperature: 34°F to +90°F

Cleaning: with IPA immediately after use and before curing

Repair with: Soudaseal 240 FC

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:

The number of joints and the joint width should be designed for a maximum of +/-25% movement.

	bonding	joints
Minimal width	1/10"	1/4"
Maximum width	3/8"	1 1/4"
Minimum depth	-	1/4"

Recommendation:

- Joints of 7/16" or less ; depth = width
- Joints of more than 7/16" ; 2 x depth = width

Meets:

- ASTM C 920, Type S, Grade NS, Class 25, Use T, NT, M, A, G and O
- Federal Specification TT-S-00230C, Type II, Class A
- USDA compliant for use in establishments that handle food

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 240FC is manufactured for professional use only. Refer to Material Safety Data Sheet (MSDS) for further information.

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SODASEAL 240 FC

Revision: 11/09/2008

Page 3 of 3

Remarks:

- Pre-testing for adhesion is intended to eliminate potential field problems. This testing will aid in determining the proper surface preparation method.
- Soudaseal 240 FC may be overpainted with waterbased paints, 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.
- Soudaseal 240 FC 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 test.
- Porous surfaces in water loaded applications should be primed with Primer 150.
- This product can not be used as a glazing sealant

Limited Warranty:

SODAL warrant products 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, SODAL MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, RESPECTING ITS PRODUCTS, and SODAL 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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