

Soudasil N1

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Technical data

Base	Polysiloxane	
Sag	No sag in vertical displ. @50°C (120°F)	ASTM C 639
Curing system	Moisture cure	
Skin Formation (*)	4 - 7 minutes	@ 23°C (73°F) & 50% relative humidity
Tack-free time (*)	15 - 20 minutes	ASTM C 679
Curing time (*)	24 hrs, 9 mm (3/8") diameter bead	@ 23°C (73°F) & 50% relative humidity
Hardness – Shore A	16 +/- 5 clear and bright colors 27 +/- 5 other colors	ASTM C 661
Tensile Yield	1.8 N/mm ²	ASTM D 412
Elongation	500%	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 +160°C (-40°F to +325°F)	
Application temperature range	-37°C to +60°C (-35°F to +140°F)	
Shelf life	12 months	Stored between +5°C & +25°C (41°F & 77°F)
VOC	29 g/L clear & bright colors 26 g/L autres colors	

* These values may vary depending on environmental factors such as temperature, moisture, and type of substrates. ** This information relates to fully cured product.

Product description

Soudasil N1 is a high quality, elastic, 1-component sealant based on silicones.

Properties

- Excellent moisture resistance
- Neutral curing
- Low modulus
- Impervious to mold
- Very easy to apply
- UV-resistant
- Permanently elastic after curing
- Very good adhesion on many materials
- Very good resistance to ageing
- Not paintable
- Not suitable for natural stone

Applications

- Backbedding / Glazing
- Joints in sanitary rooms (on synthetic baths and tubs) and kitchens.
- Top sealing in glazing.
- Sealing in cold store rooms and container construction.
- Sealing in airconditioning systems

Packaging

Color: transparent, white, black, other colors on request.

Packaging: 300 ml cartridge, 600 ml sausage, other packaging on request.

Chemical resistance

Resistant to intermittent exposure to salt water, detergents, oils, weak acids and bases

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(preliminary test required). Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons.

Substrates

Substrates: all usual building substrates, ceramic tiles, enamel, stainless steel, acrylic baths, glass, corian, ...

Nature: rigid, clean, dry, free of dust and grease.

Surface preparation: Soudasil N1 has a good adhesion to most substrates. However, for optimal adhesion and in critical applications, such as joints exposed to extreme weather conditions, high- or water-loaded joints, we recommend to follow a pre-treatment procedure. Prepare non-porous surfaces with a Soudal activator or cleaner (see Technical Data Sheet). Porous surfaces should be primed with Primer 150.

There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates. We recommend a preliminary adhesion and compatibility test on every surface.

Compatibility with glass

Tests carried out in our laboratories show that Soudasil N1 clear and bright colors are compatible with most edge seals of insulating double glazing and conventional PVB films. Due to the large number of edge sealing systems on the market, it is impossible to test the compatibility of all combinations with glazing sealants.

Joint dimensions

Min. width for joints: 5 mm (1/4")

Max. width for joints: 30 mm (1 3/16")

Min. depth for joints: 5 mm (1/5")

Recommendation sealing jobs: joint width = 2 x joint depth.

Application method

Apply the product by means of a manual-, battery- or pneumatic- caulking gun. Apply Soudasil N1 evenly without air inclusions into the joint. Smoothen the joint with a spatula with the help of finishing solution. Avoid that soapy

solution comes between the joint edges and sealant (to prevent adhesion loss).

Application method: With a manual, pneumatic or accu caulking gun.

Cleaning: Clean with Soudal Surface Cleaner or with Soudal Swipex, immediately after use Cured Soudasil N1 can only be removed mechanically.

Finishing: With a soapy solution or Soudal Finishing Solution before skinning.

Repair: With the same material.

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult label and material safety data sheet for more information.

Remarks

- Do not use on natural stones like marble, granite,...(staining).
- Do not use as structural sealant.
- Do not use on PC or PMMA because of risk of stress cracking.
- The sanitary formula should not replace regular cleaning of the joint. Excessive contamination, deposits or soap remainings will stimulate the development of fungi.
- A total absence of UV can cause a color change of the sealant.
- Discoloration due to chemicals, high temperatures, UV-radiation may occur. A change in color does not affect the technical properties of the product.
- In an acid environment or in a dark room, a white sealant can slightly turn yellow. Under the influence of sunlight it will turn back to its initial colour.
- We strongly recommend not to apply the Finishing Solution in full sunlight as it will dry very fast in these circumstances.
- When finished with a finishing solution or soapy solution, make sure that the surfaces are not touched by this solution. This will cause the sealant not to adhere to that surface. Therefore we recommend to only dip the finishing tool in this solution.

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- Do not use in applications where continuous water immersion is possible.
- Not suitable for bonding aquariums.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- Contact with bitumen, tar or other plasticizer releasing materials such as EPDM, neoprene, butyl, etc. is to be avoided since it can give rise to discolouration and loss of adhesion.

Specifications:

ASTM C 920, Type S, Grade NS, Class 25;
AAMA 802.3-92 TI; AAMA 802.3-92 TII; AAMA
803.3-92
TI; AAMA 805.2-92; Federal Specifications TT-
S- 00230C and TT-S-001543A



UL Recognized

Environmental clauses

Lead regulation:

Soudasil N1 conforms to the requirements of LEED. Low –Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168. Complies with USGBC LEED 2009 Credit 4.1: Low-Emitting Materials – Adhesives & Sealants concerning the VOC-content.

Liability

The content of this technical data sheet is the result of tests, monitoring and experience. It is general in nature and does not constitute any liability. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application.

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