LAsilikon NE

Technical data

Basis	Polysiloxane
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	Ca. 9 min
Curing speed * (23°C/50% R.H.)	Ca. 2 mm/24h
Hardness**	23 ± 5 Shore A
Density**	Ca. 1,03 g/ml
Elastic recovery (ISO 7389)**	> 80 %
Maximum allowed distortion (ISO 11600)	25 %
Max. tension (ISO 37)**	Ca. 1,05 N/mm²
Elasticity modulus 100% (ISO 37)**	Ca. 0,27 N/mm²
Elongation at break (ISO 37)**	> 800 %
Temperature resistance**	-60 °C → +180 °C
Application temperature	+5 °C → +35 °C

* 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

LAsilikon NE is a high-quality, elastic one-component joint sealant based on silicones

Properties

- Very easy to apply
- Very low emission, EC1+ certified
- MEKO free
- No filamenting - can be shaped and finished very well
- Food safe according to FDA regulations code CFR 21 § 177.2600 (e)
- UV-resistant
- Weatherproof
- Permanently elastic after curing
- Neutral curing
- Low modulus
- Excellent adhesion on glass, ceramic, enamel and galvanised metals
- Impervious to mould, contains biocide with fungicidal action
- Not suitable for natural stone
- Not paintable

Applications

- Permanent elastic sealing in bathroom, kitchen, air conditioning and ventilation systems.
- Connection joints between wall and bath tubs or shower bases.
- Joints in building products from aluminum and finished materials.

Packaging

Colour: transparent, white, grey, black, manhatten;
Packaging: 290 ml cartridge

Shelf life

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

Chemical resistance
Resistant to intermittent exposure to salt water, detergents, oils, weak acids and bases (preliminary test required). Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons.

Substrates
Substrates: all usual building substrates, ceramic tiles, aluminium, metals, enamel, glass, ...
Nature: rigid, clean, dry, free of dust and grease.
Surface preparation: LAsilikon NE 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 surface activator or cleaner (see Technical Data Sheet). Porous surfaces should be primed. 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 or sealing. 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 LAsilikon NE is 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. In case of double glazing we always recommend to do a compatibility test.

Joint dimensions
Min. width for joints: 5 mm
Max. width for joints: 30 mm
Min. depth for joints: 5 mm
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 LAsilikon NE 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 a surface cleaner immediately after use. Cured LAsilikon NE can only be removed mechanically.
Finishing: With a soapy solution or a 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 stone such as marble, granite, ... (staining).
- The sanitary formula should not replace regular cleaning of the joint. Excessive contamination, deposits or soap remainigs will stimulate the development of fungi.
- Discoloration due to chemicals, high temperatures, UV-radiation may occur. A change in color does not affect the technical properties of the product.
- A total absence of UV can cause a color change of the sealant.
- 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.

- 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.
- We strongly recommend not to apply the finishing solution in full sunlight as it will dry very fast in these circumstances.
- Do not use in applications where continuous water immersion is possible.
- Not suitable for bonding aquariums.
- Do not use on polycarbonate.
- 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.

Standards

- ISO 11600 F 25LM
- ISO 11600 G 25LM
- Food Label FDA

Environmental clauses

Leed regulation:

LAsilikon NE 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.