PENOSIL

TECHNICAL DATA SHEET

PENOSIL Neutral Silicone 307

Meko-free neutral silicone

Multipurpose zero meko neutral curing silicone sealant for general building construction joints.
It is one-part, low modulus, neutral cure silicone sealant that reacts with the atmospheric moisture, producing a flexible rubber extremely resistant. It does not content corrosive or strong smell additives.

Main benefits

- MEKO-free. Compliant with resolution adopted by the Germany's Industry Association for Sealants-IVD, regarding MEKO-releasing products.
- Environmentally friendly. Low odour and non-corrosive.
- Fast curing.
- High elasticity.
- High movement capability.
- Excellent adhesion to a wide range of substrates without priming.
- UV radiation, weather and ageing resistant.
- Indoor / outdoor.
- Very easy to apply and tool.
- Extremely long service life.

Colour

Black, grey & brown.

Package

300 ml cartridge, 24 pcs in a box.

Storage conditions and shelf life

Guaranteed shelf life 12 months from the manufacturing date when stored in closed original package in a dry place and protected from direct sunlight at temperatures between +5 °C and +30 °C.

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Fields of application

- Filling, sealing and glazing, indoors and outdoors.
- Sealing joints with moderate movement, e.g. façade joints and window perimeters.
- Filling and weatherproofing seams between window and door frames.
- Sealing of joints between porous and non-porous substrates including concrete, masonry, brick, aluminium (lacquered, anodized, painted,...), PVC, glass, ceramics and most plastics.
- All finishing and sealing work.

Adhering

- Concrete
- Masonry
- Bricks
- Wood
- Aluminium (lacquered, anodized, painted)
- PVC
- Glass
- Ceramics
- Most plastics

Technical classifications and certificates

- Sealant for facade for interior and exterior application, intended for use in cold climate
  EN 15651-1:2012: Type F-EXT-INT-CC

- Sealant used for sealing glazing applications, suitable for use in cold climate
  EN 15651-2:2012: Type G-CC

- French VOC-emission class B

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Technical data

Properties	Value	Unit
Basis	Oxime No-Meko	
Consistency	Non-Slump paste	
Density (DIN 53 479-B)	1,2	g/ml
Tack free time	5	min
Skin forming time	6...12	min
Curing Rate	2...3	mm/24h
Loss of volume (ISO10563)	<30	%
Resistance to flow (ISO 7390)	0	mm
Application temperature	+5...+40	°C
Service temperature	-40...+150	°C
Elastic recovery (ISO 7389)	>80	%
Shore A hardness (ISO 868)	27	
E-Modulus 100% (ISO 37)	0,50	N/mm²
Tensile strength (ISO 37)	1,5	N/mm²
Elongation at break (ISO 37)	550	%

The values specified were obtained at +23 °C and 50% relative humidity, unless otherwise specified. These values may vary depending on environmental factors such as temperature, moisture and type of substrates.

Application instructions

Application conditions

Application temperature between +5 °C and +40 °C.

Surface preparation

Substrates (joint flanks) must be clean, dry, and free of dust, grease and other contaminant which may affect the adhesion. Non-porous surfaces should be cleaned with a suitable solvent and thoroughly dried with a clean cloth. Porous substrates must be mechanically cleaned from loose particles. Mask off the joint edges.

Application method

Cartridge: cut off the threaded end of the cartridge and screw on the application nozzle for directing sealant. Cut the threaded end in a way where a suitable opening for application is produced. Place the cartridge together with the applicator in the gun and fill the installation nozzle with sealant, by repeatedly pressing the gun trigger.
Apply sealant in the joint by repeatedly and evenly pressing on gun trigger and smoothly dragging the nozzle along the joint. After application, smooth the surface with a suitable tool (e.g., spatula) and remove excess material.
If necessary, the adjacent surfaces of the joint should be protected to avoid staining. Usually, masking tape is being used for this. Protective masking tapes should be removed before the sealant's skin is formed.
In wider and movable joints, backer rod should be used as a back-up material, to ensure the correct thickness and shape of sealant joint and to avoid three-sided adhesion.
Ensure adequate ventilation in all joint locations. During the curing process, make sure that no impurities can settle on the surface and that the joint surface is not affected by mechanical load.

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Cleaning

Uncured sealant can be cleaned with solvents like white spirit, acetone or with PENOSIL Cleaning Wipes.
Cured sealant can be removed mechanically. If needed silicone remover should be used.

Limitations

- Do not use on bituminous substrates or on building materials which might bleed oils, plasticizers or solvents (e.g. natural rubber, chloroprene, EPDM, ...).
- There is no adhesion to PE, PP, PTFE (Teflon®).
- Due to the wide variety of possible substrates, we recommend a preliminary compatibility test.
- It cannot be overpainted.
- It is not suitable with natural stone.
- It is not intended for structural glazing.

Safety regulations

Ensure sufficient ventilation during application and wear necessary personal protective equipment.
More specific safety information is available on the safety data sheet (SDS)

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