

TECHNICAL DATASHEET

PENOSIL Premium Aquarium Silicone

The acid-curing silicone sealant with great mechanical properties and high curing speed can be used for aquariums as well as in various industrial solutions. After curing completely safe for living organisms. Non-sagging, does not spread in the joint. Adheres well to many non-porous silicate materials, e.g. glass, bricks, ceramics, email, glazed plates and clinker; treated, varnished or painted wood, and plastics such as epoxide, polyester, polyacrylate, polycarbonate, and laminate. Fast curing: touch-dries quickly. Great processing properties.

Fields of applications

Used for the construction of aquariums, sealing of joints in pools and water parks as well as terrariums and other glass structures. Suitable also for sealing of joints required to stand mechanical stress.

Do not use in applications where contact with natural stones such as marble, granite, fibre cement and mortar is required.

Due to corrosion, do not use in contact with metals such as lead, copper, brass and zinc, or not alloyed or unfinished steel.

May discolour in contact with some elastomers such as EPDM, APTK, and neoprene.

Product has been tested and is classified accordingly:

Sealant for facade for interior and exterior application, intended for use in cold climate.
EN 15651-1:2012: Type F-EXT-INT-CC: CLASS 20LM

Sealant used for sealing glazing applications, intended for use in cold climate.
EN 15651-2:2012: Type G-CC: CLASS 20LM

Sealant used for sanitary applications.
EN 15651-3:2012: Type S: CLASS XS2

Application conditions

Usage temperature between +5 °C and +40 °C. The application temperature of the sealant must be +20 °C - +25 °C. The application at temperatures lower than +5 °C, can only be carried out when connected surfaces are free of condensation, snow and ice.

Before filling the aquarium with water, make sure that the sealant has completely cured.

After curing, silicone is not toxic for living organisms. Suitable for sealing aquariums.

Application instructions

The surfaces exposed to the sealant must be clean, dry and free from loose particles such as dust, debris, rust, oil and other contamination. Non-porous surfaces should be cleaned with solvent and a clean, non-fluffy cotton cloth. Solvent rests should be removed before evaporating with a clean cloth.

Cut off the threaded end of the plastic cartridge and screw on the application nozzle for directing silicone. Cut the threaded end in a way where a suitable opening for application of silicone is produced. Place the

cartridge together with the nozzle in the silicone gun and fill the installation nozzle with silicone, by repeatedly pressing the gun trigger.

Apply silicone in the joint by repeatedly and evenly pressing on the gun trigger and smoothly dragging the nozzle in a continuous movement along the joint. After applying the silicone, smoothen silicone with a rubber silicone scraper. Remove excess silicone.

Cleaning

Uncured sealant can be removed from hands and surfaces with PENOSIL Premium Cleaning Wipes. Cured sealant should be removed mechanically first and then softened with PENOSIL Premium Silicone Remover and removed with water and cloth.

Technical data

Property	Unit	Value
Skin forming time	minutes	10-12
Curing	mm/24 h	3-4
Density DIN 53 479-B	g/cm ³	1,02
Properties of cured sealant		
Elastic recovery, ISO7389	%	98
Movement of the joint, ISO 11600	%	± 20
Intensity of microbiological grows, ISO846		2
Resistance to flow, ISO7390	mm	0
Change in volume, ISO10563	%	3,5 ± 0,5
Elongation at break, ISO37	%	580 ± 25
Tensile strength, ISO37	N/mm ²	1,7 ± 0,2
Modulus at 100% elongation, ISO 37	N/mm ²	0,4 ± 0,1
Hardness (Shore A)		30 ± 2
Temperature resistance	°C	-40 to +80

The parameters indicated have been measured at +23 °C and 50% relative air humidity.

Colour

Colourless, black, white.

Package

310 ml plastic cartridge, 12 cartridges in box.

Storage conditions

Guaranteed storage time 18 months starting from the date of manufacture if stored in a closed original package in a dry place between +5 °C and +30 °C.

Safety regulations

Ensure sufficient ventilation during application. Keep out of the reach of children. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Cured silicone sealant can be handled without any danger to health.

More specific safety information is available on the safety data sheet (SDS).