

Ventilation silicone

Single-component, low modulus, high quality neutral silicone sealant with good adhesion properties, long storage time and great processing properties. Glues well many silicate materials such as glass, ceramics, enamel, glazed tiles and clinker tiles; impregnated, varnished or painted wood and several plastics such as epoxides, polyesters, polyacrylates and laminate. Suitable for use on metallic surfaces and alkaline materials such as concrete.

Properties

- High elasticity
- Acid and solvent-free
- Mold and UV resistant
- Elastic after solidification even at extreme temperatures (-40 °C to +150 °C)
- Moisture, weather, and aging resistant
- Non-shrinking when dry
- High movement capability
- Very low odour
- Non-corrosive to metals
- Can be processed with materials based on water and solvent
- Excellent adhesion to a wide range of substrates without priming



Field of applications

Insulation and sealing of connections in general construction and repair works. Also on surfaces where acid-curing silicone cannot be used e.g., sheet metal works and ventilation works etc. for sealing connections and flanges in all HVAC ventilation systems, including sheet metal, tiles and flexible ventilation ducts both in clean rooms and in industrial kitchens. Suitable for sealing in cleanroom applications in hospitals, laboratories and other critical surroundings and sealing in environments where food is handled and stored (food containers, cold store installations, food industry, etc). Not suitable in contact with bitumen and butyl.

The product has been tested and is classified accordingly:

- sealant for facade for interior and exterior application EN 15651-1:2012: Type F-EXT-INT: class 12,5E;
- sealant used for sanitary applications. EN 15651-3:2012: Type S: CLASS XS1;
- tested and approved according to DIN EN ISO 846. Fulfills the requirements from the VDI 6022, Part 1.

Application conditions

Application temperature between +5 °C and +40 °C. The application at temperatures lower than +5 °C, can only be carried out when connected surfaces are free of condensation, snow and ice. Not suitable for sealing aquariums and for underwater applications. Not suitable for contact with bitumen and butyl. Not paintable.

Application instructions

The surfaces must be clean from dust, loose particles and oil. 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 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 the gun trigger and smoothly dragging the nozzle along the joint. After application, smooth the surface with a rubber silicone scraper and remove excess material.

Remove excess silicone. 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.

Cleaning

Clean uncured sealant with solvents like white spirit and acetone. Cured sealant can be removed mechanically by using special cleaning agents for the removal of cured silicones for softening the sealant. Clean the surface with a sponge and water.

Technical data

Properties	Unit	Value
Skin forming time	minutes (23 °C; 50% R.H.)	5-10
Curing rate	mm/24 h	2,5-3
Specific gravity (ISO 2811-1)	g/ml	1,01
Tensile properties		
Movement capability (ISO 9047)	%	±12,5
Intensity of microbiological grows (ISO 846)		1
Resistance to flow (ISO 7390)	mm / (5 °C and 50 °C)	0
Loss of volume (ISO 10563)	%	17,5±0,5
Elongation at break (ISO 37)	%	500±0,2
Tensile strength (ISO 37)	MPa	1,5±0,2
E-Modulus 100% (ISO 37)	MPa	0,5±0,1
Elastic recovery (ISO 7389)	100% when stretching	>85%
Shore A hardness (Shore A) (ISO 868)		25±2
Application temperature	°C	-40 ... +150

Color: aluminium grey

Package: 310 ml cartridge, 12 pcs in a box

Storage conditions

Guaranteed storage time 12 months starting from the date of manufacture if stored in a closed original package in a dry place between +5 °C and +25 °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 water and seek medical advice.

Cured sealant can be handled without any danger to health.

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

Remark

The information on this product sheet is based on the results of the tests carried out by the manufacturer and practical knowledge. The technical data is defined in standard conditions. Because of the diversity of the materials and substrates and the great number of possible applications that are out of our control, we cannot accept any responsibility for the results obtained. The correct use of the product presupposes that the user has made him/herself aware of the contents of the working instructions and procedure guide if provided. In every case, it is recommended to carry out preliminary experiments.