

TYTAN PROFESSIONAL High Temp Sealant

Silicone is one-component, elastic sealant curing under the influence of humidity from the air, intended for sealing and grouting joints and to protect against moisture.

TYPICAL APPLICATIONS / BENEFITS

TYPICAL APPLICATIONS	BENEFITS
sealing ventilation and smoke ducts	excellent temperature resistance
sealing various heating and cooling devices	excellent mechanical properties
sealing and connecting in motors, powertrains, radiators and motor pumps	high resistance to UV radiation
	excellent adhesion
	low shrink
	fast cure rate

APPLICATION CONDITIONS

Application temperature	+5 °C- +40 °C
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USE

Prior to application, read safety instruction presented at the end of TDS and in MSDS.

1. SURFACE PREPARATION

- Combined surfaces must be clean, dry (no frosted) free of dust, rust, old loose old material oil, grease, paint and other dirt which reduces the adhesion of the sealant.
- Surfaces best degrease with acetone or ethanol (glass, glaze, metal) or detergent (synthetic materials).

2. PRODUCT PREPARATION

- Packaging temperature prior to application must conform to recommendations in the table below.

3. APPLICATION

- Place the cartridge in the mechanical gun or pneumatic gun.
- Cut off the top of the threaded adapter. Screw the nozzle tip on and cut off at a 45° angle, with the diameter equal to the gap width.
- Treatment make at the time of workability given in the technical data table.
- The applied sealant should be smoothed immediately with a spatula soaked in soapy water for best result.
- Joint is allowed to fully cure.

4. WORKS AFTER COMPLETION OF APPLICATION

- Tools and hands clean while uncured adhesive with paper towel.
- After hardening with to hands remove water and soap. Tools clean while cured adhesive mechanically or with use an agent for removing silicone - Silicone Remover.

DO NOT WASH HANDS WITH SOLVENTS.

5. REMARKS / RESTRICTIONS

- Due to the acetic acid released during curing, acid silicone is not recommended for use on calcareous substrates such as concrete, plaster, brick.
- Sealant is not intended for sealing joints of natural stone, such as granite, sandstone, marble, etc.
- Sealant should not be used on bituminous surfaces, partially vulcanized rubber, chloroprene or other construction materials that bleed oils, plasticizers or solvents.
- Do not use in totally confined spaces where it is not exposed to atmospheric moisture, because the sealant requires atmospheric moisture for cure.
- Application not on sensitive metal surfaces for example copper and its alloys and silver steel of mirrors.
- Sealant is not intended for applications involving structural glazing.
- Sealant is neither suitable for food applications, nor for medical use. This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

TECHNICAL DATA

As supplied - tested at 23°C and 50% relative humidity	Unit	Parameter
Consistency	-	Viscous paste
Color	-	Red
Density (ISO 2811-1)	[g/ml]	1,00-1,04
Skin formation time	[min]	5-30
Tack free	[min]	5-15
Curing time	[mm/24h]	2-3
Flow from vertical surfaces (ISO 7390)	[mm]	0-3
Squeezing rate (fi 3mm, 6 bar)	[g/min]	150-600
Migration of solvent [mm in +5°C]	-	0

Migration of solvent [mm in -15°C]	-	0
As cured - tested after 4 weeks at 23°C and 50% relative humidity	Unit	Parameter
Volume loss (ISO 10563)	[%]	1-5
Modulus @ (ISO 8339)	[Mpa]	0,40-0,50
Modulus @ (ISO 37)	[Mpa]	0,35-0,48
Movement Accommodation (ISO 9047)	[%]	20
Elongation at break (ISO 8339)	[%]	105-120
Elongation at break (ISO 37)	[%]	350-550
Shore A Hardness	-	24-30
Elastic recovery	[%]	95-99

	Chemical resistance
water	+
brine water	+
swimming pool water	+ (not recommended for continuous immersion)
fuel oil	+ (not recommended for continuous immersion)
olive oil	+ (not recommended for continuous immersion)
diluted organic and inorganic acids	+ (not recommended for continuous immersion)
diluted alkalis	+ (not recommended for continuous immersion)

+ good resistance; - weak resistance; N/A not analyzed

Surface	Adhesion
brick	N/R
concrete	N/R
granite	N/A
sandstone	N/A
marble	N/A
plaster	N/R
copper	N/R
acid resistant sheet	+
aluminium	+
galvanized sheet	+/-
cast iron	+/-
ceramic tile	+
glass	+
raw wood (pine)	+
PC (polycarbonate)	N/A
hard PVC (polyvinyl chloride)	+/-
PS (polystyrene)	+/-
bituminous tare	N/A

bituminous shingle

N/A

+ good adhesion; +/- adhesive partially detach; - weak adhesion; N/A not analyzed; N/R not recommended; T recommended adhesion test

All given parameters are based on laboratory tests compliant with internal manufacturer's standards and strongly depend on product hardening conditions (c.a., ambient, surface temperature, quality of used equipment and skills of person applying the product).

TRANSPORT / STORAGE

Warranted shelf life is 24 months from the manufacturing date when stored in unopened, original package at temperature from +0 °C to +25 °C in a dry place protected from freezing.

SAFETY AND HEALTH PRECAUTIONS

Apply the usual hygienic measures. For detailed information find Material Safety Data Sheet available at producer upon request.

Disposal considerations: Product remains and empty cartridges must be disposed of in compliance with official, local regulations.

All written or oral information, recommendations and instructions are given according to our best knowledge, tests and experience, in good faith and in compliance with manufacturer's principles. Each user of this material will make sure in every possible way, including verification of the final product in proper conditions, about suitability of the supplied materials for their intended purposes. The manufacturer is not liable for any losses incurred due to inaccurate or erroneous application of the manufacturer's materials.