TYTAN PROFESSIONAL Sanitary Silicone

Sanitary silicone is a fast curing sealant with an acidic (acetate) curing system, containing agents preventing the formation and growth of mould, fungi and algae. After curing, it forms a non-shrinking, non-splinking and elastic joint. It is resistant to large temperature differences, UV radiation and its physical properties remain unchanged for many years. It is characterized by excellent adhesion to glass, ceramics, porcelain and wood. It is especially recommended for use in kitchens, bathrooms and rooms with high humidity.

BENEFITS

- excellent resistance to mould and fungus
- good adhesion to many smooth building materials
- high resistance to UV radiation

RECOMMENDED USES

- sealing glass in display cabinets, marks, cable ducts
- protection of polyurethane foams against UV radiation
- sealing baths, hand basins, showers, sinks and other sanitary facilities and other water supply equipment
- sealing of ceramic tiles
- small home repairs

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NORMS / ATESTS / CERTIFICATES

The product meets requirements of:

- EN 15651-1:2012 F-EXT-INT
- EN 15651-3:2012 S, S1

TECHNICAL DATA

Uncured - tested at 23°C and 50% relative humidity	Value
Skin formation time [min]	5 - 30
Tack Free [min]	5 - 15
Curing rate [mm/24h]	2 - 3
Flow from vertical surfaces [+50°C] (ISO 7390) [mm]	0 - 3
Density (ISO 2811-1) [g/ml]	0,95 - 0,97
Cured - tested after 4 weeks at 23°C and 50% relative humidity	**Value**
Module at 100% elongation (ISO 37) [MPa]	0,16 - 0,30
Module at 100% elongation (ISO 8339) [MPa]	0,2 - 0,34
Movement accommodation (ISO 9047) [%]	+/- 25
Elongation at break (ISO 8339) [%]	>= 80
Shore A hardness (ISO 868)	12 - 20
Temperature resistance [°C]	-40 - +100
Module at 60% elongation at 23°C and -20°C (ISO 8339) [MPa]	0,2 - 0,35
Adhesion to surface	**Value**
Aluminium	+/-
Cast iron	+/-
Stainless steel	+/-
Ceramic tile	+
PS (polystyrene)	+

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Clinker tile	+
Galvanized sheet	+/-
Glass	+
Raw wood (pine)	+
Hard PVC (polyvinyl chloride)	+
Colour	**Value**
White	RAL 9003
Transparent	+
Black	RAL 9005
Brown	+
Grey	+
Beige	+
Conditions of application	**Value**
Container temperature [°C]	+0 - +25
Surface temperature [°C]	+5 - +40
Application temperature [°C]	+5 - +40

METHOD OF USE

Prior to application, read safety instruction presented in MSDS.

Surface preparation

- Bonding surfaces must be clean, dry (not frosted) free of dust, rust, old loose 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).
- To avoid dirtiness around the gap and to maintain equal line use adhesive tapes which should be removed immediately after finishing sealing.
- Sealant does not require using primer on most surfaces but on some specific surfaces may have to use it to improve adhesion.
- Joint width should be as to be able to carry movement in range calculated for sealant in question (movement accommodation).
- The sealant bead should not be wider than 25 mm and the minimum joint width should be 6 mm to

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allow in the construction field proper application and tooling of sealant. The ideal ratio of joint width : depth is 2 : 1.
- For proper design deep joints should be filled with back-up rod.
- In movable joints tripartite sealant adhesion to the surface should be avoided because it can cause its damage. For this purpose if depth of the slots does not allow introduction of polyurethane foam, use dilatation tape or back-up rod. Using foam or tape causes bipartite sealant adhesion and allows proper work with the joint.
- If joints are too shallow to allow backing material to be used, we recommend use of adhesive tape. This acts as a back-up rod to prevent seal in forming of three-sided adhesion.

Product preparation

- Prior to application, the product should be conditioned at room temperature.

Application

- 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.
- Cut off the top of the foil. Screw the nozzle tip on and cut off at a 45° angle, with the diameter equal to the gap width.
- Squeeze sealant by mechanical or pneumatic gun.
- Treatment make at the time of workability given in the technical data table.
- Applied sealant should be smoothed immediately with a spatula soaked in soapy water for best result.
- Remove masking tape before skin will form.
- Joint should be allowed to fully cure.

Works after completion of application

- Uncured product should be removed from hands, tools and dirty surfaces with paper towel.
- After curing, remove from hands with water and soap; from tools remove mechanically. or using agent for removing silicones - Silicone Remover.
- DO NOT WASH HANDS WITH SOLVENTS.

Remarks / restriction

- Do not apply on wet surfaces.
- 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 apply on sensitive metal surfaces for example copper and its alloys and silver steel of mirrors.
- Sealant is not recommended for joints that are permanently under water, because it can cause physical

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changes.

- Do not use in totally confined spaces where it is not exposed to atmospheric moisture, because the sealant requires atmospheric moisture for cure.
- Sealant is not intended for applications involving structural glazing.
- Silicone should not be painted.
- Not suitable for bonding aquariums and terrariums.
- It is not suitable for direct contact with food and medical uses. Sealant was not duly tested and it is not suitable for medical and pharmaceutical applications.
- Do not apply on PE, PP - no adhesion.
- Not suitable for bonding mirrors.

ADDITIONAL INFORMATION

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 12 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.

Product can be transported at low temperatures up to -20 °C for up to 2 weeks, before using the product should be conditioned for 24 hours at +23 °C.

Precautions should be taken when the product after thawing out is frosted again - is resistant to 1 cycles of freezing/thawing out.

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CATALOGUE DATA

Nominal capacity / volume / size	Colour	Number of pieces per collective package	Index	EAN Code
20 ml	transparent	12	10022243	5903518001383
20 ml	white	20	10022244	5903518002786
280 ml	beige	12	10041580	5902120175499
280 ml	brown	12	10041578	5902120175550
280 ml	grey	12	10041579	5902120175574
280 ml	transparent	12	10042112	5902120179947
280 ml	transparent	12	10044579	5902120183043
280 ml	transparent	12	10041533	5902120175512
280 ml	white	12	10042163	5902120179961
280 ml	white	12	10044581	5902120185221
280 ml	white	12	10041539	5902120175536
310 ml	beige	12	10026217	5903518006999
310 ml	black	12	10022267	5903518006975
310 ml	brown	12	10022265	5903518006982
310 ml	transparent	12	10022254	5903518007002
80 ml	transparent	10	10022274	5903518000621
80 ml	white	10	10022276	5903518000638

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SAFETY AND HEALTH PRECAUTIONS

For detailed information find Material Safety Data Sheet available at producer upon request.

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.

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