TYTAN PROFESSIONAL Universal Silicone

Universal silicone is a versatile, permanently elastic sealant with an acidic (acetate) curing system. It can be used for smooth and porous substrates both indoors and outdoors. It forms a waterproof seailing protecting gaps against moisture and air penetration. It is resistant to UV radiation and changing weather conditions. The created joint is permanently elastic, waterproof and its properties remain unchanged for many years. It adheres perfectly to glass, ceramics, glaze, wood.

BENEFITS

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

APPLICATION

- 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

NORMS / ATESTS / CERTIFICATES

The product meets requirements of:

- EN 15651-1:2012 F-EXT-INT
- EN 15651-3:2012 S, S2

TECHNICAL DATA

Uncured - tested at 23°C and 50% relative humidity	Value
Skin formation time [min]	5 - 30
Tack Free [min]	5 - 15

Selena FM S.A.
ul. Legnicka 48A, 54-202 Wrocław, Poland
tel. +48 71 78 38 290, e-mail: office@selena.com, www.selena.com

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)	+
Clinker tile	+
Galvanized sheet	+/-
Glass	+
Raw wood (pine)	+
Hard PVC (polyvinyl chloride)	+
Colour	**Value**
White	RAL 9003
Transparent	+

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Black	RAL 9005
Brown	+
Grey	+
Beige	+

Conditions of application	Value
Application temperature [°C]	+5 - +40
Surface temperature [°C]	+5 - +40
Container temperature [°C]	+0 - +25

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 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

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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 changes.

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- 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.

REMARKS / RESTRICTION

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	Catalogue Number	Index	EAN Code
20 ml	transparent	12	SEA-SILAUNIV3-TP-47-ml-20-003	10022326	5903518000898
20 ml	white	12	SEA-SILAUNIV3-TP-55-ml-20-001	10004451	5903518000935
280 ml	black	12	SEA-SILAUNIV14-TP-35-ml-280-004	10041623	5902120175659
280 ml	brown	24	SEA-SILAUNIV3-TP-35-ml-280-027	10041581	5902120175635
280 ml	grey	24	SEA-SILAUNIV3-TP-57-ml-280-074	10041588	5902120175673
280 ml	transparent	12	SEA-SILAUNIV3-TP-52-ml-280-003	10041542	5902120175598
280 ml	white	12	SEA-SILAUNIV3-TP-52-ml-280-001	10041543	5902120175611
600 ml	transparent	12	SEA-SILAUNIV14-TP-19-ml-600-003	10022378	5903518009099
600 ml	white	12	SEA-SILAUNIV14-TP-19-ml-600-001	10022379	5903518009051

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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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