

# TYTAN PROFESSIONAL Neutral Silicone

Oxime 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.

## BENEFITS

- neutral for alkaline surfaces
- excellent resistance to mould and fungus
- high flexibility after curing
- odourless and chemically neutral
- resistance to UV radiation

## APPLICATION

- sealing baths, hand basins, showers, sinks and other sanitary facilities and other water supply equipment
- sealing of ceramic tiles
- sealing joints exposed to moisture (sanitary applications)
- sealing building and construction elements made of concrete, wood, metals and synthetic materials

## NORMS / ATESTS / CERTIFICATES

The product meets requirements of:

- EN 15651-1:2012 F-EXT-INT-CC 20LM
- EN 15651-2:2012 G-CC 20LM
- EN 15651-3:2012 S XS1
- ISO 11600 : 2004, F&G, 20LM

Product has a Hygienic Certificate issued by the National Institute of Hygiene. Number of certificate:

- HK/B/0387/01/2013

Product was tested for mould resistance by Institute of Building Technology according to ISO 846 - research report number:

- LM01-2039/10/Z00NM

## TECHNICAL DATA

Uncured - tested at 23°C and 50% relative humidity	Value
Skin formation time [min]	5 - 30
Tack Free [min]	5 - 10
Curing rate [mm/24h]	2 - 3
Flow from vertical surfaces [+50°C] (ISO 7390) [mm]	0 - 3
Density (ISO 2811-1) [g/ml]	0,98 - 1
Cured - tested after 4 weeks at 23°C and 50% relative humidity	Value
Shrinkage (ISO 10563) [%]	≤10
Module at 100% elongation (ISO 8339) [MPa]	0,25 - 0,35
Elongation at break (ISO 8339) [%]	180 - 280
Elastic recovery (ISO 7389) [%]	80 - 95
Shore A hardness (ISO 868)	18 - 24
Temperature resistance [°C]	-40 - +120

Adhesion to surface	Value
Aluminium	+/-
Cast iron	+
Stainless steel	+
Ceramic tile	+
PS (polystyrene)	+/-
PC (polycarbonate)	+/-
Brick	+
Plaster/Drywall	+/-
Clinker tile	+
Glass	+
Raw wood (pine)	+
Galvanized sheet	+
Hard PVC (polyvinyl chloride)	+
Concrete	+/-
Colour	Value
White	RAL 9003
Transparent	+
Black	RAL 9005
Brown	+
Grey	+
Beige	+

Application Condition	Value
Application temperature [°C]	+5 - +40
Surface temperature [°C]	+5 - +40
Container temperature [°C]	+0 - +25

## DIRECTIONS FOR 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 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.
- Sealant should not be used on bituminous surfaces, partially vulcanized rubber, chloroprene or other construction materials that bleed oils, plasticizers or solvents.
- Sealant is not intended for sealing joints of natural stone, such as granite, sandstone, marble, etc.
- While planning of the joint, possibility of small discoloration of sealant on some surfaces and under influence of weather conditions should be taken into account.
- 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.
- Not suitable for bonding aquariums and terrariums.

- Sealant is not intended for applications involving structural glazing.
- 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.
- Silicone should not be painted.
- Product is not compatible with butyl.
- Do not use in totally confined spaces where it is not exposed to atmospheric moisture, because the sealant requires atmospheric moisture for cure.

## 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 -30 °C for up to 3 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 3 cycles of freezing/thawing out.

## 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.