

# TYTAN PROFESSIONAL Building Neutral Silicone

Building silicone is a universal sealant that creates a flexible, non-shrinkable, waterproof and a durable weld. It has good adhesion to porous and smooth surfaces such as concrete, brick, wood, glass, glaze, steel, aluminum, enamel and laminated surfaces and varnished and plastics. Does not corrode metals and concrete.

## BENEFITS

- waterproof
- resistant to UV radiation and changing weather conditions
- good adhesion to smooth and porous surfaces
- low shrinkage
- high flexibility after curing
- odourless and chemically neutral
- for indoor and outdoor use

## INTENDED USE

- sealing vertical dilatation joints
- sealing horizontal dilatation joints
- filling and sealing joints in pavements and industrial floors
- sealing building and construction elements made of concrete, wood, metals and synthetic materials
- seals for joinery installation
- sealing glass in display cabinets, marks, cable ducts

## NORMS / ATESTS / CERTIFICATES

The product meets requirements of:

- EN 15651-1:2012 F-EXT-INT-CC
- EN 15651-2:2012 G-CC
- EN 15651-3:2012 S XS1

## TECHNICAL DATA

Surface temperature [°C]	+5 - +40
Application temperature [°C]	+5 - +40
Working time [min] (+23°C, 50% RH)	5 - 10
Curing rate [mm/24h] (+23°C, 50% RH)	3
Flow from vertical surfaces [+50°C] (ISO 7390) [mm]	0 - 3
Temperature resistance (after curing) [°C]	-40 - +120

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).

## 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 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.
- Do not use in totally confined spaces where it is not exposed to atmospheric moisture, because the sealant requires atmospheric moisture for cure.

## TRANSPORT / STORAGE

Store in the original package in a dry place, protected against frost and overheating, at a temperature of +0 °C to +25 °C. Expiry date and batch number on the package.

## 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.