



TYTAN PROFESSIONAL WINS Seal & Bond Adhesive Sealant 600 ml white

10049514

TYTAN WINS Seal&Bond is designed for fixing and sealing a warm sill or a warm window sill to the window frame. The product is flexible and has very good adhesion to most construction substrates, such as: aluminium, PVC, wood, purenit PUR, XPS, silicate blocks, cellular concrete, ceramic blocks, bricks, plasters, etc. Application of TYTAN WINS Seal&Bond together with the TYTAN WINS Flex insulating foam and TYTAN WINS liquid foils creates a tight, energy-saving and water- and wind-resistant joint between jambs and frames, preventing energy loss, moisture and fungal growth of the joint.

BENEFITS

- high resistance to UV radiation
- free of isocyanates, silicones and solvents
- excellent adhesion to wide range of construction substrates
- can be painted (possibility of painting uncured sealant)
- neutral, non-corrosive to metals and applicable on alkaline surfaces
- sealing and bonding properties
- exterior and interior applications
- odourless and chemically neutral
- excellent chemical resistance

RECOMMENDED USES

- bonding skirting-boards, panels, plates made of synthetic materials, glaze, terracotta, elements made of synthetic materials, wood, metals, metal plates, for all types of surfaces in building such as brick, concrete, gypsum, plasters
- filling gaps, joints, slots in concrete, wood, gypsum, masonry and other building materials
- sealing and bonding in the production of containers and in automotive industry
- sealing metal sheets, tiles and other roofing materials
- sealing of dilatation joints on terraces and balconies

NORMS / ATESTS / CERTIFICATES

The product meets requirements of:

- EN15651-1:2012 F-EXT-INT-CC;20HM
- EN15651-4:2012 PW-EXT-INT-CC;20HM
- EN15651-3:2012 S ; XS 2
- VOC TEST: M1
- A+
- EMI CODE: EC1 PLUS
- Indoor Air Comfort GOLD

TECHNICAL DATA

Conditions of application	Value
Application temperature [°C]	0 - +40
Surface temperature [°C]	0 - +40
Container temperature [°C]	0 - +25
Uncured - tested at 23°C and 50% relative humidity	Value
Density (ISO 2811-1) [g/ml]	1,40 - 1,45
Skin formation time [min]	15 - 30
Tack Free [min]	5 - 20
Curing rate [mm/24h]	2,5 - 3,5
Flow from vertical surfaces [+50°C] (ISO 7390) [mm]	0 - 3
Cured - tested after 4 weeks at 23°C and 50% relative humidity	Value
Shrinkage (ISO 10563) [%]	1 - 4
Module at 100% elongation (ISO 37) [MPa]	0,95 - 1,25
Movement accommodation (ISO 9047) [%]	20
Elongation at break (ISO 37) [%]	250 - 400
Elastic recovery (ISO 7389) [%]	60 - 95
Shore A hardness (ISO 868)	35 - 45

Temperature resistance [°C]	-40 - +90
Adhesion to surface	Value
Aluminium	+
Copper	+
Cast iron	+
Galvanized sheet	+
Stainless steel	+
Ceramic tile	+
Glass	+
Hard PVC (polyvinyl chloride)	+
PS (polystyrene)	+
PC (polycarbonate)	+
Brick	+
Concrete	+/-
Granite	+
Marble	+
Plaster/Drywall	+
Clinker tile	+
Raw wood (pine)	+
Sandstone	+
Colour	Value
White	+

METHOD OF USE

Prior to application, read safety instruction presented in MSDS.

Surface preparation

- Bonding surfaces must be clean (not 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).
- To avoid dirtiness around the gap and to maintain equal line use adhesive tapes which should be removed immediately after finishing sealing.
- 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.
- Squeeze sealant by mechanical or pneumatic gun.
- Treatment make at the time of workability given in the technical data table.
- Joints should be smoothed by cube to distribute the sealant or spatula.
- 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.
- DO NOT WASH HANDS WITH SOLVENTS.

Remarks / restriction

- Sealant should not be used on bituminous surfaces, partially vulcanized rubber, chloroprene or other

construction materials that bleed oils, plasticizers or solvents.

- 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 paint using dye based on alkyd resins.
- 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.
- Before painting it is recommended to conduct a trial test.
- Do not use in totally confined spaces where it is not exposed to atmospheric moisture, because the sealant requires atmospheric moisture for cure.

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 18 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 4 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.



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.