

TYTAN PROFESSIONAL AQUA

PROTECT Adhesives Sealants 280 ml

transparent



Highly flexible, transparent AQUA PROTECT SEALANT ADHESIVE is designed for bonding and sealing flashings on roofs, balconies and terraces. It can be used to successfully bond ceramic tiles and metal roofing tiles. It is characterised by a very high initial grip and very high final bond strength, even on unstable and working substrates. After hardening, the joint is durable and very flexible. It can also be used for bonding guttering made of copper, galvanised steel, PVC, raw, lacquered and galvanised sheet metal as well as concrete, brick and wood.

BENEFITS

- ultra transparent, crystal joint
- free of isocyanates, silicones, solvents and orthophthalates
- good adhesion to humid surfaces
- excellent adhesion to selected range of construction substrates
- excellent mechanical properties
- can be painted
- neutral, non-corrosive to metals and applicable on alkaline surfaces
- sealing properties
- odourless and chemically neutral
- low shrinkage
- UV resistant

RECOMMENDED USES

Bonding and sealing of clay tile and sheet metal tile

Gluing and sealing of guttering elements made of copper, galvanised steel, hard PVC

Bonding and sealing of raw, lacquered and galvanised metal sheets

Gluing and sealing of the treatment on balconies and terraces

NORMS / ATESTS / CERTIFICATES

The product meets requirements of:

- EN 15651-1:2012 F-EXT-INT 12,5P
- EN 15651-3:2012 S, S1
- A+
- EMICODE: EC1 PLUS
- French CMR components - Pass
- AgBB - Pass
- Belgian Regulation - Pass
- Indoor Air Comfort - Pass
- Indoor Air Comfort GOLD - Pass

Additional information

- Fire reaction: E

TECHNICAL DATA

Uncured - tested at 23°C and 50% relative humidity	Value
Density (ISO 2811-1) [g/ml]	1,03 - 1,08
Skin formation time [min]	5 - 15
Cured - tested after 4 weeks at 23°C and 50% relative humidity	Value
Hardness (Shore A) (ISO 868)	35 - 45
Elongation at break (ISO 37) [%]	250 - 350
Temperature resistance [°C]	-40 - +110
Conditions of application	Value
Application temperature [°C]	+5 - +40
Colour	Value
Crystal clear	+
Cured (tested after 4 weeks at 23°C and 55 % H.R.)	Value
UV resistance (EN 1297)	+

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.
- Sealant does not require using primer on most surfaces but on some specific surfaces may have to use it to improve adhesion, eg. on some types of concrete or sheet.
- 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.
- 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.
- In insufficiently or excessively sunny places joint can yellow
- Take care when bonding materials "tension" (PMMA, PC), there is a risk of detachment- perform tests.
- 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 and PVC - no adhesion.
- Before painting it is recommended to conduct a trial test, especially in a case of solvent-based paints.
- The product is not suitable for outdoor glazing seals.
- Product is not intended for use on roofs
- 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 15 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 6 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 4 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.