

# TYTAN PROFESSIONAL WINS External Liquid Foil



TYTAN WINS external liquid window foil is a single-component, ready-to-use product that forms a vapor-permeable film (zone 1), which regulates the migration of moisture from the window gap to the external environment of the building, which eliminates foam degradation (zone 2). It is chemically neutral and adheres to most building materials. It forms a flexible and vapor-permeable foil. Thanks to its flexibility, it is ideal for sealing frame-to-frame joints in TYTAN WINS systems, where there is usually little movement. The coating, combined with TYTAN WINS Flex insulating foam and TYTAN WINS inner liquid foil, creates a water- and wind-resistant junction between jamb and frame preventing energy loss and the possibility of moisture and mildew at the joint. The joint sealed with TYTAN WINS external liquid foil is resistant to adverse weather conditions including hurricanes up to 160 km/h. The specialized TYTAN WINS external liquid foil for sealing windows is reinforced with polymer fibers and has a very high UV resistance for 10 years

## BENEFITS

- ready for use
- highly flexible, permanently elastic even at freezing temperatures
- forms an vapor permeable membrane after drying
- it can be painted and plastered after drying
- does not flow down from vertical surfaces
- prevents mold and foam degradation in the window or door connection
- can be used in - and outdoor applications
- high UV-resistant 10 years
- very good adhesion to most building materials

## RECOMMENDED USES

- window and door joints - sealing joints of door and window frames: outside application
- walls, cracks, gaps
- wall-floor and wall-ceiling connections
- renovation of coverings

## TECHNICAL DATA

Uncured - tested at 23°C and 50% relative humidity	Value
Density [g/cm <sup>3</sup> ]	1,4 - 1,44
Skin formation time [min]	60
Curing rate [mm/24h]	1,3 - 1,5
Run-off from vertical surfaces [mm]	0
Module at 100% elongation (ISO 37) [MPa]	1,5 - 2,5
Elongation at break (ISO 37) [%]	350 - 700
Vapor permeability - equivalent diffusion resistance coefficient factor Sd [PN-EN 12572-2016] [m]	2
Temperature resistance after curing [°C]	-30 - 80
Conditions of application	Value
Application temperature [°C]	0 - 30
Container temperature [°C]	5 - 30
Surface temperature [°C]	1 - 70
Storage temperature [°C]	5 - 30

## METHOD OF USE

Prior to application, read safety instruction presented in MSDS.

### Surface preparation

- The External Liquid Foil for Window presents ideal adhesion to typical construction materials, such as: PU foam, brick, concrete, plaster work, wood, metals, styrofoam, hard PVC and rigid PUR.
- The working surface should be cleaned and degreased, if necessary primed.
- Secure surfaces exposed to accidental contamination (using for example masking tape).
- In the case of application for window gaps, it is required to fill with PU Foam or expandable foam tape.

### Product preparation

- If product is too cold should be brought a warm room leaving it for at least 24 h. The optimal temperature of the product packaging is +20°C.

### Application

- Work in protective gloves.

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- After application and full foam PU Foam hardening cut off the excess foam.
- Apply External Liquid Foil for Window undiluted and evenly by means of a suitable a special flexible spatula or wall paint brush in the desired layer thickness on the substrate.
- Vertical gaps should be filled with External Liquid Foil for Window starting at the bottom and moving up.
- Average 1 mm thickness for 1 layer is recommended.
- If necessary applicable in several layers.
- To ensure full tightness, apply the product from 0,5 cm to 1 cm with a spatula on the wall and window frame.
- Apply a second layer, depending on the porosity of the substrate and conditions (temperature, humidity).
- For a foil product, use a special foil extruder to apply the sealant to the surface or directly to the joint. Using a flexible spatula, distribute the sealant layer evenly, approximately 2 mm thick.
- If a masking tape is used, it should be removed immediately after the application of the sealant has been completed.
- The curing process is dependent on temperature and humidity.
- External Liquid Foil for Window can be cleaned before hardening with water.
- Do not freeze until fully cured (the temperature during curing cannot be lower than +5°C).

### **Works after completion of application**

- Before curing, product should be removed from substrates and tools.
- After completion of work, the applicator and tool should be thoroughly cleaned.

### **Remarks / restriction**

- Static joints, gaps or seals up min. 10mm, max. 30 mm.
- Not suitable for expansion and dilatation joints.
- The works should be carried out in accordance with the technical documentation prepared for a specific object, in accordance with the provisions of the law, taking into account the recommendations of expert opinions and the technical characteristics of the product,
- Curing time depends on temperature and humidity.
- Avoid prolonged contact with water and rain until the coating cures.
- Avoid freezing until fully cured.
- The product reaches full properties after 72 hours.
- Install the joinery in accordance with the manufacturer's instructions, paying particular attention to the correct positioning of the anchors.
- Values of consumption are depending on layer thickness and environmental factors such as temperature, moisture, and type of substrates. Calculated in the standard window O32 / O33 (dimensions: 1165 mm x 1435 mm), for a layer width of 30 mm and a layer thickness of 3 mm.
- Product is packing in 600 ml sausage and 2,4 l bucket.
- Curing system via evaporation of water
- Running meters: 600 ml (20 rm), 2,4 l (80 rm) for gap width 20 mm.

## 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

Do not freeze. Do not store or transport at minus temperatures.

Transport and storage from + 5°C up to +30°C.

The product should be transported and stored in dry conditions and in original, undamaged packaging at a temperature of +5°C to +25°C.

Storage in temperature exceeding +30°C shortens the shelf life of the product, adversely affecting its parameters.

Protect from frost and direct sunlight.

After opening, close the packaging tightly and use the remaining contents as soon as possible.

The product so stored has a shelf life of 12 months.

Detailed information on the conditions of transport is given in the Material Safety Data Sheet (MSDS).

## CATALOGUE DATA

Nominal capacity / volume / size	Colour	Number of pieces per collective package	Number of pcs. per pallet	Index	EAN Code
600 ml	white	12	1152	10045215	5902120186471

## 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.