



# TYTAN PROFESSIONAL 60 Seconds Fast Universal Foam Adhesive

One-component polyurethane adhesive hardening due to air humidity. The adhesive is manufactured in compliance with requirements of ISO 9001:2008 standard.

Tytan 60 Seconds is a fast, universal foam adhesive, which can be used indoors and outdoors. It bonds most building materials and cures within minutes. The can be used to fill small gaps and imperfections. It can be cut, sanded and painted. Tytan 60 seconds provides high tack within a minute from application.

## APPLICATIONS

MULTIPURPOSE CONSTRUCTION ADHESIVE WITH HIGH ADHESION TO MANY MATERIALS AND SUBSTRATES.

## BENEFITS

▲▲▲ ADHESION TO BUILDING MATERIALS SURFACE
▲▲▲ WIDE APPLICATION TEMPERATURE RANGE
▲▲▲ EFFECTIVITY OF PREPARATION
▲▲▲ EFFECTIVITY OF APPLICATION
▲▲▲ THERMAL BRIDGES ELIMINATION
▲▲▲ CLAEN TECHNOLOGY
▼▼▼ ADHESION PREASSURE
▲▲▲ high; ▲▲ increased; ■ normal; ▼▼ decreased; ▼▼▼ low; - no application

## APPLICATION CONDITIONS

Can/ applicator temperature [°C] (optimal +20°C)	+5 ÷ +35
Ambient/ surface temperature [°C]	0 ÷ +35

## DIRECTIONS FOR USE

Prior to application, read safety instruction presented at the end of TDS and in MSDS.

### 1. SURFACE PREPARATION

- The adhesive presents ideal adhesion to typical construction materials, such as: cellular concrete, ceramic hollow block, brick, concrete, styrofoam, wood, OSB, cardboard, mineral wool, aluminum, plaster.
- The substrate should be stable, even, dry, free of dust, powder, oil and grease.
- Check the insulation boards, OSB, roofing felt - if the surface is covered with a hydrophobic coating or another substance, it is necessary to sand the surface a little with a grinding tool or sand paper to increase adhesion.

### 2. PRODUCT PREPARATION

- Too cold can should be brought to room temperature, e.g. by immersion in warm water with temperature up to 30°C or leaving it in room temperature for at least 24 h.
- Applicator temperature cannot be lower than can temperature.

### 3. APPLICATION

- Put on protective gloves.
- Vigorously shake the can (10-20 seconds, the valve facing down) to thoroughly mix the components.
- Screw the can onto the applicator.
- Working position of the can is "valve facing down".
- Apply the adhesive along the surface forming bead with required diameter 2-3 cm.
- Adjust application speed by controlling gun's trigger in order to maintain required bead diameter. Keep the gun nozzle in the already applied adhesive mass – abt. 1 cm above the block/ brick surface.

#### General application guidelines

Apply adhesive onto the substrate, with bead diameter of 2-3 cm (bead diameter depends on the evenness of the substrate). Wait 1 min. after application and join the elements together. Position of bonded elements can be corrected within 5 min. In case of bonding large surfaces such as drywall or OSB, the adhesive should cover  $\geq 5\%$  of the bonding surface. In case of bonding small decorative elements, the adhesive should cover  $\geq 50\%$  of bonding surface. Recommended joint thickness is  $\leq 10$  mm. It is necessary to level the surface when unevenness exceeds 1 cm.

In the case of bonding elements to the ceiling or vertical surface, the elements must be temporarily fixed in place until they reach the grip. It is recommend to use mechanical connectors and distances. Full cure time 24 h. Once fully cured, adhesive is easy to cut, sand, plaster or paint. Protect against UV with e.g. plaster, paint.

#### Gypsum Board (DryWall), OSB (cheap board)

Sand OSB surface in the spots where adhesive will be applied. Apply adhesive bead around the board's circuit 5cm from the edges, and additional serpentine bead(s) across the middle. Adhesive should cover  $\geq 5\%$  of the bonded surface.

#### Windowsill, stair tread and riser

Apply minimum 2 parallel adhesive beads on the substrate where the windowsill will be bonded/ around tread or riser, 5cm from the edges.



### Roofing repairs and installation of thermal insulation

Apply adhesive bead around the circuit 5cm from the edges and serpentine bead(s) across the middle if required.

### EPS and XPS molding, decorative elements or insulation boards

Apply adhesive bead around the circuit 5cm from the edges and serpentine bead(s) across the middle if required.

### Autoclaved Aerated Concrete: wardrobe, bath/sink pedestal, small partition walls

Apply adhesive bead 5 cm from the edges, in the middle of AAC block. The substrate of first layer must be regular and even.

## 4. WORKS AFTER COMPLETION OF APPLICATION

- Should application be interrupted for more than 5 minutes, the applicator nozzle with fresh adhesive should be cleaned with polyurethane foam cleaner and the can should be shaken prior to application.
- In case of screwing the applicator off the can, the valve should also be cleaned with the cleaner.

## 5. REMARKS / RESTRICTIONS

- Lower than recommended application temperature results in yield decreasing and extension of the adhesive drying time.
- Open adhesive package should be used within 1 week.
- Product does not adhere to polyethylene, polypropylene, polyamide, silicones, Teflon.
- Quality and technical condition of used applicator affect the parameters of final product.
- The adhesive is safe for polystyrene board, not destroy them.
- Use acetone Cleaner to remove uncured adhesive. Caution! Cleaners can cause for foamed polystyrene boards by dissolving matter. Hardened adhesive may only be removed mechanically (e.g. with a knife).
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- The adhesive should not be used in spaces without access of fresh air and poorly ventilated or in places exposed to direct sunlight.

## TECHNICAL DATA

Color	
yellow	+

Parameter (+23°C/50% RH) <sup>1)</sup>	Value
Capacity [m] <sup>2)</sup>	38
Full cure time [h] (RB024)	24
Open time [min] <sup>1)</sup>	2-5
Correction time [min] <sup>1)</sup>	2-5
Initial grip [s]: <sup>3)</sup>	
-light elements	60
-heavy elements	120
Flammability class (DIN 4102)	B3

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Flammability class (EN 13501-1:2008)

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- 1) All given parameters are based on laboratory tests compliant with internal manufacturer's standards and strongly depend on foam hardening conditions (ca, ambient, surface temperature, quality of used equipment and skills of person applying the foam). For gaps wider than 2cm values may differ from those declared in the technical data table.
- 2) Studies conducted for the adhesive tails 2-3cm in diameter, performance is dependent on ambient temperature, humidity, the distance between the adhesive and the wall elements and the chosen method of application.
- 3) The given times apply to a minimum humidity of 40%. In the case of lower humidity times may be extended.

## TRANSPORT / STORAGE

Transport temperature	Foam transport period [days]
< -20°C	4
-19°C ÷ -10°C	7
-9°C ÷ 0°C	10

The adhesive maintains its usability within 12 months from manufacturing date, provided that it is stored in original packaging in vertical position (valve facing up) in a dry place in temperature +5°C do +30°C. Storage in temperature exceeding +30°C shortens the shelf life of the product, adversely affecting its parameters. The product may be stored in temperature -5°C, no longer however than for 7 days (excluding transport). Storage of adhesive cans in temperature exceeding +50°C or in vicinity of open flame is not allowed. Storage of the product in a position other than recommended may result in jamming the valve. The can cannot be squeezed or pierced even when it is empty. Do not store the foam in the passenger compartment. Transported only in the trunk.

**Detailed transport information is included in the Material Safety Data Sheet (MSDS).**

The information contained herein is offered in good faith based on Producer's research and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information shall not be used in substitution for customer's tests to ensure that Producer's products are fully satisfactory for your specific applications. Producer's sole warranty is that the product will meet its current sales specifications. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. Producer specifically disclaims any other expressed or implied warranty of fitness for a particular purpose or merchantability. Producer disclaims liability for any incidental or consequential damages. Suggestions of use shall not be taken as inducements to infringe any patent.