



# Tytan Professional STYRO 753 Adhesive for external thermal insulation

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

## APPLICATIONS

FOR FIXING EPS, XPS IN ACCORDING TO ETICS, FOR FIXING THERMAL INSULATION FOR ROOF AND FLOOR, DECORAL ELEMENTS.

## BENEFITS

▼▼▼ ADHESIVE PRESSURE
▲▲▲ ADHESION TO SURFACE
▲▲▲ THERMAL BRIDGES ELIMINATION
▲▲▲ WORK EFFICIENCY AND CLEAN TECHNOLOGY
▲▲▲ high; ▲▲ increased; ■ normal; ▼▼ decreased; ▼▼▼ low; - no application

## APPLICATION CONDITIONS

Can/ applicator temperature [°C] (optimal +20°C)	+10 - +30
Ambient/ surface temperature [°C]	0 - +30

## DIRECTIONS FOR USE

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

### 1. SURFACE PREPARATION

- The adhesive should be applied according to the range of ambient temperatures and surface temperatures given in the table below.
- Secure surfaces exposed to accidental adhesive contamination.
- If the surface of the insulation boards is hydrophobic or coated, grind glued surface with abrasive paper in order to improve adhesion.

### 2. PRODUCT PREPARATION

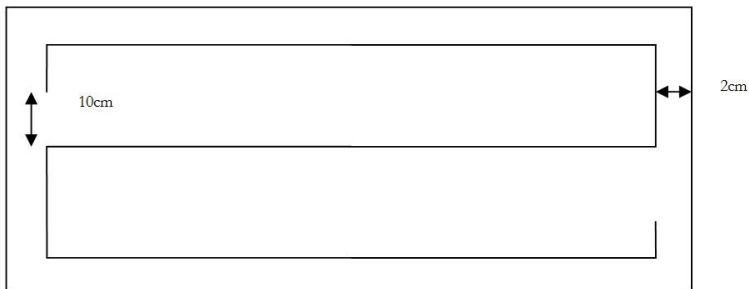
- Too cold can should be brought to room temperature, e.g. by immersion in warm water with temperature up to +30°C or leaving it in room temperature for at least 24 h.
- Applicator temperature cannot be lower than can temperature.

### 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”.
- Below application mode:

#### FOR BONDING POLYSTYRENE BOARDS TO FACADE WALLS

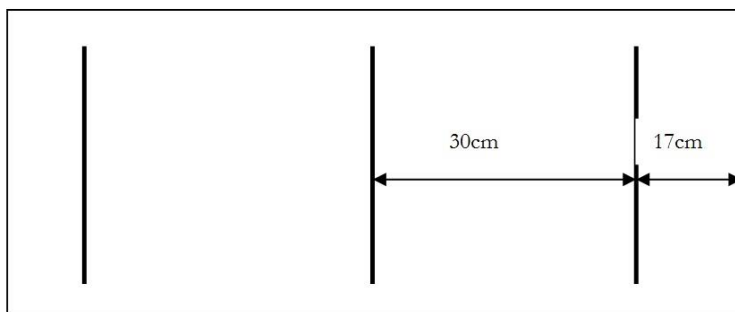
- Apply the adhesive with a bead of ca. 2 cm diameter on the board of foamed polystyrene as shown below:



- Stream volume and pace of application is controlled by pressure force on the applicator trigger.
- Within 5 minutes after the product application join the board with the wall and press slightly (slot 3-8 mm).
- The first layer of adhesive boards should be encouraged to strip off.
- At lintels, support the boards until the bond cures.
- The board position should be corrected within 15 min from joining.
- In case of heavy wind or rainfall use scaffolding mesh.
- Foamed polystyrene boards anchoring depends on specification of used ETIC System and should be established based on technical documentation of the ETICS or European Technical Approvals guidelines ETAG for ETICS.

#### FOR BONDING POLYSTYRENE BOARDS TO ROOFS AND FOUNDATIONS

- Apply the adhesive with a bead of ca. 2 cm diameter on the board of foamed polystyrene as shown below:



- Stream volume and pace of application is controlled by pressure force on the applicator trigger.
- Within 5 minutes after the product application join the board with the wall and press slightly (slot 3-8 mm).
- The board position should be corrected within 15 min from joining.
- Foamed polystyrene boards anchoring depends on specification of used ETIC System and should be established based on technical documentation of the ETICS or European Technical Approvals guidelines ETAG for ETICS.

#### 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

- The adhesive working yield depends on several circumstances: air, surface and can temperatures, air humidity and the distance between the foamed polystyrene and the face of the wall, wall leveling. When application temperature is higher, time is reduced. When application temperature is lower and closer to the minimum, correction time may be extended.
- Product does not adhere to polyethylene, polypropylene, polyamide, silicones, Teflon.
- 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).
- Quality and technical condition of used applicator affect the parameters of final product.
- The foam should not be used in spaces without access of fresh air and poorly ventilated, and do not expose to temperatures exceeding 50°C.

## TECHNICAL DATA

Color	
blue	+

PARAMETER (+23°C/50% RH) <sup>1)</sup>	Value
Capacity (surface coverage) [m <sup>2</sup> ]	6 - 14
Full cure time [h] (RB024)	24
Open time [min]	≤ 5
Correction time [min]	≤ 15
Heat conductivity coefficient (λ) [W/m*K] (RB024)	0,036
Dimensional stability [%] (TM 1004-2013***)	≤ 3
Flammability class (DIN 4102)	B3



Flammability class (EN 13501-1:2008)	F
Watertightness at a pressure difference 2200 Pa* [PN-EN 1027:2001]	No leakage

Surface**	Adhesion
Concrete [MPa]	> 0,230
Cellular concrete [MPa]	> 0,500
Brick porotherm [MPa]	> 0,200
Wood [MPa]	> 0,350
Galvanized steel [MPa]	> 0,180
Cardboard [MPa]	> 0,330
Extruded styroboards (XPS) [MPa]	> 0,260
Expanded styroboards (EPS) [Mpa]	> 0,080
Mineral wool [MPa]	> 0,090
Glass [MPa]	> 0,160
Cork boards [MPa]	> 0,400
Bitumen layer with mineral sprinkle [MPa]	> 0,350
Foam glass insulation board	cohesive failure in the material

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).

\*\* studies conducted to 3mm wide gap in the external institute Research Report No LK02-2289/11/Z00NK

\* The value given for a gap with: length (864 ± 2) mm, depth (102 ± 1) mm, width (9.5 ± 0.5) mm in external Institute Research Report No. LK02-2289/11/Z00NK

\*\*\* Producer uses test methods approved by FEICA designed to deliver transparent and reproducible test results, ensuring customers have an accurate representation of product performance. FEICA OCF test methods are available at: <http://www.feica.com/our-industry/pu-foam-technology-ocf>. FEICA is a multinational association representing the European adhesive and sealant industry, including one-component foam manufacturers. Further information at: [www.feica.eu](http://www.feica.eu)

## TRANSPORT / STORAGE

### Transport:

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

The foam 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 foam 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.