TYTAN PROFESSIONAL Adhesive for Styrofoam GUN Version



Adhesive for polystyrene, designed for fixing expanded polystyrene (EPS) and extruded polystyrene (XPS) panels, is used for insulating building façades, ceilings and garages. It is ideal for both new buildings and the renovation of existing insulation. The product is designed for bonding panels to concrete, ceramic, silicate and aerated concrete surfaces. Additionally, the adhesive can be used to fix decorative and finishing elements made of polystyrene. The product is characterised by excellent adhesion to a wide range of building materials, which guarantees effective and durable bonding, whilst the ability to apply it from as low as 0 °C allows work to be carried out even in colder conditions.

BENEFITS

- application temperature from 0°C to +30°C
- coverage up to 12 m^2
- correction time up to 15 minutes
- the ability to fill expansion joints for better insulation and energy efficiency
- versatile – ideal for thermal insulation and for bonding decorative and finishing elements made from EPS and XPS
- exceptional adhesive strength, ensuring a secure and durable installation

RECOMMENDED USES

- fixing white and graphite expanded polystyrene (EPS) boards and extruded polystyrene (XPS) boards
- excellent adhesion to a variety of wall surfaces: concrete, ceramic, silicate and aerated concrete
- fixing EPS and XPS panels to the surfaces of underground parts of buildings, with or without a bituminous waterproofing membrane, when installing perimeter thermal insulation
- bonding decorative and finishing elements made from EPS and XPS polystyrene

TECHNICAL DATA

Parameter (+23°C/50% RH)	Value
Correction time [min]	≤15
Open time [min]	≤5

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Full cure time (RB024) [h]	24
Class of reaction to fire (EN 13501-1:2008)	F
Flammability class (DIN 4102)	B3
Mechanical anchoring [h]	2
Dimensional stability (EN 17333-2:2020) [%]	≤3
Heat conductivity coefficient (RB024) [W/mK]	0,036
Conditions of application	**Value**
Can / applicator temperature (optimal +20°C) [°C]	+10 - +30
Ambient/surface temperature [°C]	0 - +30
Colour	**Value**
Blue	+

METHOD OF USE

Prior to application, read safety instruction presented in MSDS.

Surface preparation

- The surface can’t be icy, frosted or covered with snow.
- The surface should be stable, dry, clean, free from dust and oil.
- Secure surfaces exposed to accidental adhesive contamination.
- Prior to bonding, adhesion to plasters and other substrates should be checked. If necessary, remove paint or plaster falling off the wall.

Product preparation

- The temperature of the can should be between +10°C and +30°C.
- Before use, shake the can vigorously about 20-30 times to thoroughly mix the ingredients.
- Screw the can onto the applicator.
- Applicator temperature cannot be lower than can temperature.

Application

- Put on protective gloves.
- Working position of the can is “valve facing down”.
- BONDING FACADE INSULATION
- Before bonding polystyrene boards to walls and facades, it is absolutely necessary to install starter tracks.
- Apply the adhesive to the board / element to be bonded in a bead approximately 2–3 cm in diameter,

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maintaining a distance of about 2 cm from the edges, and an additional bead along the center of the board in an “S” shape.
- After applying the adhesive, wait 2–4 minutes (maximum 5 minutes), then press the board / bonded element against the surface, press firmly, and level it using a long straightedge.
- The board position should be corrected within 15 min from joining
- At lintels, the boards should be supported until the adhesive sets, which takes approximately 15 minutes.
- In the case of working under unfavorable conditions, such as rain or strong winds, the use of scaffolding mesh is required.
- Once the adhesive has cured (approx. 2 hours after application), additionally secure the boards with special mechanical fasteners, in accordance with the technical specification.
- Fill the joints between boards with adhesive to eliminate thermal bridges.
- BONDING FOUNDATION INSULATION AND DECORATIVE ELEMENTS
- Apply adhesive to foundation insulation boards in four vertical beads approximately 2–3 cm in diameter, spaced 20–30 cm apart and 2–3 cm from the board edges.
- After applying the adhesive, wait 2–4 minutes (maximum 5 minutes), then press the board / bonded element against the surface, press firmly, and level it.
- Do not use in conditions of continuous water exposure, such as immersion caused by high groundwater levels.
- The position of the boards can be adjusted for up to 15 minutes.
- For bonding polystyrene ceiling tiles and decorative elements, apply the adhesive in beads approximately 2 cm in diameter, keeping a 3 cm distance from the edge. For ceiling applications, support the bonded element for 7 minutes. This is the adhesive setting time that ensures the element will not detach.

Works after completion of application

- Fresh polyurethane adhesive can be removed using Tytan Professional polyurethane foam cleaner.
- The cleaner may damage polystyrene boards.
- Once hardened, polyurethane adhesive can only be removed mechanically or with Tytan Professional hardened foam cleaner – it is recommended to test in an inconspicuous area before cleaning.
- In case of a work break longer than 5 minutes, clean the gun nozzle with Tytan Professional polyurethane foam cleaner and lock the trigger, leaving the can attached for the next use.
- If the polyurethane adhesive is not used up completely after finishing the work, the can valve should also be cleaned.

Remarks / restriction

- 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.
- Quality and technical condition of used applicator affect the parameters of final product.

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- 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.

ADDITIONAL INFORMATION

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 joints wider than 3 cm, the parameter values may differ from those declared in the technical data table.

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 (OCF) -> OCF Test Methods). FEICA is a multinational association representing the European adhesive and sealant industry, including one-component foam manufacturers.

TRANSPORT / STORAGE

Expiry date and batch number on packaging.

Store in original packaging in a vertical position (valve up) in a dry place at a temperature between +5°C and +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.

For detailed transport information, please refer to the Safety Data Sheet.

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

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CATALOGUE DATA

Nominal capacity / volume / size	Colour	Number of pieces per collective package	Index	EAN Code
750 ml	blue	12	10024858	5903518057342

SAFETY AND HEALTH PRECAUTIONS

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.

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