

TYTAN PROFESSIONAL GUN PU Foam Adhesive for Bricklaying 870 ml grey



Professional, modern and ready-to-use foam adhesive for thin joint bricklaying. The product is dedicated to external and internal masonry of cellular concrete blocks, silicate blocks and ground ceramic blocks with high dimensional accuracy. It is designed for both load-bearing and partition walls. Foam adhesive for bricklaying shows very good adhesion to typical masonry elements, such as plain and cellular concrete, ceramic hollow blocks and silicate.



BENEFITS

- use in low temperatures as low as -10°C
- full resistance after 24 hours
- 50% faster work (in relation to cement mortar)
- excellent thermal insulation by eliminating thermal bridges
- can be used for load-bearing and partition walls
- durable and strong bond after just two hours
- high efficiency
- resistance to mold and mildew formation
- no electricity, water or specialized equipment required

RECOMMENDED USES

- for load-bearing and partition walls made of cellular concrete blocks, ceramic bricks and silicate blocks
- construction of single-family houses or multi-family construction
- bricklaying of structural walls made of cellular concrete, silicate blocks or ceramic bricks
- bricklaying partition walls made of ceramic bricks, silicate blocks or cellular concrete

NORMS / ATESTS / CERTIFICATES

Additional information

- ITB-KOT-2017/0111 edition 2

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TECHNICAL DATA

Colour	Value
Grey	+
Parameter (+23°C/50% RH)	Value
Fire resistance (PN-EN 13501-2:2016)	EI90
Bricklaying size (The size depends on the type and size of a component masonry as well as the width of the application method, the number of braids, wide tails, the application and the quality of the applicator.) [m ²]	max. 12
Correction time [min]	≤ 3
Time to reach full strength [h]	24
Heat conductivity coefficient (PN-EN 12667:2002) (For free foaming) [W/ m*K]	0,036
Performance for cellular concrete blocks and silicate blocks (for 3 cm diameter braid under conditions [T=+23°C, RH=50%]) [m]	40 - 60
Yield of a 6 cm diameter bead on ceramic blocks in standard conditions 23°C RH 50% [m]	20 - 30
Conditions of application	Value
Can / applicator temperature (optimal +20°C) [°C]	+10 - +35
Ambient/surface temperature [°C]	-10 - +35

METHOD OF USE

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

Surface preparation

- Thin bed mortar presents ideal adhesion to typical construction material, such a: cellular concrete, brick, concrete, plaster.
- Absolutely perform the proper leveling the first layer using classic/traditional mortar.
- Clean the surface of block from dust to not reduce the mortar adhesion.
- Sprinkle the working surface with water (with painter's brush for example) in temperature >0°C.
- Secure surfaces exposed to accidental mortar contamination.

Product preparation

- Too cold can should be brought to room temperature, e.g. by immersion in warm water with

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temperature up to 30°C or leaving it in room temperature for at least 24 h.

- Applicator temperature cannot be lower than can temperature.

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”.
- Absolutely perform the proper leveling the first layer using classic/traditional mortar.
- Sprinkle the working surface with water (with painter's brush for example) in temperature >0°C.
- CELLULAR CONCRETE AND HOLLOW CLAY UNIT: a single bead is required for brick units up to 130 mm wide. Two beads are required for brick units more than 130 mm wide.
- Apply the mortar along the brick/ block forming bead with required diameter for: aerated concrete blocks 2-3 cm.
- Apply the mortar along the brick/ block forming bead with required diameter for: calibrated ceramic bricks 5 – 6 cm.
- Stream volume and pace of application is controlled by pressure force on the applicator trigger.
- Keep the gun during application with distance ca. 1 cm from the surface of the block.
- Blocks/ bricks should be put on applied mortar up to 3 minutes from it's application (within advised ‘open time’). For best results put the block/ brick 1 minute after mortar application.
- It is possible to correct the position of the cellular concrete blocks but not more than 5 mm in the horizontal position without lifting the masonry element. Calibrated ceramic bricks correction is not possible.
- Walling Corners performed in accordance with the manufacturer's instructions masonry.
- Lintels laid in accordance with general accepted methods of mounting the lintels.
- Should application be interrupted for more than 5 minutes, the applicator nozzle with fresh PU mortar should be cleaned with polyurethane foam cleaner. To do so, place the plastic tube supplied with the dispensing applicator packaging on the dispensing applicator outlet to avoid the formation of mist containing the cleaner and applicator residue during cleaning. Then screw the can with the cleaner onto the dispensing applicator and press the trigger until clear liquid flows out of the applicator. 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.

Works after completion of application

- Immediately after full foam hardening, it should be secured against exposure to UV rays by using e.g. plaster or paints.
- Clean the dispensing gun thoroughly after the completion of the work. To do so, place the plastic tube supplied with the dispensing gun packaging on the dispensing gun outlet to avoid the formation of mist containing the cleaner and applicator residue during cleaning. Then screw the can with the cleaner onto the dispensing gun and press the trigger until clear liquid flows out of the gun.

Remarks / restriction

- The mortar is designed for usage with calibrated bricks with flatness surface tolerance no higher than +/-0.3mm only.
- Open foam package should be used within 1 week.
- PU mortar displays lack of adhesion to polyethylene, polypropylene, polyamide, silicone and Teflon.
- Fresh PU mortar should be removed with polyurethane foam cleaner.
- Hardened PU product can be removed by hand (e.g., with a knife) or using TYTAN dried foam remover.
- Quality and technical condition of used applicator affect the parameters of final product.
- The PU mortar should not be used in spaces without access of fresh air and poorly ventilated or in places exposed to direct sunlight.

ADDITIONAL INFORMATION

The performance assessment with the technical parameters specified is shown in the relevant National Technical Assessment (NTA) by BRI (ITB).

All presented data are based on laboratory tests measured according to internal standards of producer and strongly depends on curing conditions (can temperature, ambience temperature, substrate temperature, quality of gun applicator, skills and experience of person who is applying).

TRANSPORT / STORAGE

The mortar 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 Safety Data Sheet (SDS).

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

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.