TYTAN PROFESSIONAL 60 Seconds Fast Universal GUN PU Foam Adhesive 750 ml

Multifunctional professional polyurethane adhesive with a wide range of construction applications. Recommended for finishing works, installation of skirting boards, window sills, stairs and decorative elements. Also dedicated to bricklaying partition walls and enclosures of ceramic blocks, silicate blocks, aerated concrete, as well as for the installation of gypsum boards, OSB boards on walls and floors. It bonds insulating materials such as polystyrene EPS, XPS and mineral wool. The technology used speeds up the work considerably. Initial grip already after 60 seconds. The product is characterized by excellent adhesion to most surfaces.

BENEFITS

- initial high-tack after 60 seconds
- excellent adhesion to most building materials
- use in a wide temperature range (0°C to +30°C)
- low rise for stability of the bonded parts
- ready to use
- free of dust and dirt

RECOMMENDED USES

- bonding of elements made of wood-based boards (OSB, MDF, HDF) and gypsum-cardboard panels
- bricklaying partition walls and enclosures from gas concrete blocks, silicate blocks, ceramic blocks
- installation of window sills and stairs
- bonding decorative elements, coffers, floor moldings
- bonding of polystyrene EPS, XPS and mineral wool panels

NORMS / ATESTS / CERTIFICATES

Additional information

- Meets requirements of the French label A+

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TECHNICAL DATA

Parameter (+23°C/50% RH)	Value
Fire resistance (PN-EN 13501-2:2016)	EI90
Full cure time (RB024) [h]	24
Open time [min]	1 - 2
Correction time [min]	1 - 3
Flammability class (DIN 4102)	B3
Class of reaction to fire (EN 13501-1:2008)	F
Initial grip: light elements (The given times apply to a minimum humidity of 40%. In the case of lower humidity times may be extended.) [s]	60
Initial grip: heavy elements (The given times apply to a minimum humidity of 40%. In the case of lower humidity times may be extended.) [s]	120
Capacity (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) [m]	38
Tensile strength perpendicular to the connection surface: Wooden elements - adhesive joint ≤ 1 mm - concrete base [MPa]	≥0,3
Tensile strength perpendicular to the connection surface: PVC elements - adhesive joint ≤ 1 mm - concrete base [MPa]	≥0,3
Tensile strength perpendicular to the connection surface: Aluminium elements - adhesive joint ≤ 1 mm - concrete base [MPa]	≥0,15
Tensile strength perpendicular to the connection surface: Natural stone - adhesive joint ≤ 1 mm - concrete base [MPa]	≥0,2
Tensile strength perpendicular to the connection surface: OSB/3 boards - adhesive joint ≤ 1 mm - concrete base [MPa]	≥0,2
Tensile strength perpendicular to the connection surface: Gipsum elements - adhesive joint ≤ 1 mm - concrete base [MPa]	≥0,25
Tensile strength perpendicular to the connection surface: Plasterboards/Drywall boards - adhesive joint ≤ 1 mm - concrete base [MPa]	≥0,25
Tensile strength perpendicular to the connection surface: MDF elements - adhesive joint ≤ 1 mm - concrete base [MPa]	≥0,25

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Tensile strength perpendicular to the connection surface: HDF elements - adhesive joint ≤ 1 mm - concrete base [MPa]	≥0,3
Tensile strength perpendicular to the connection surface: EPS elements - adhesive joint ≤ 1 mm - concrete base [MPa]	≥0,15
Tensile strength perpendicular to the connection surface: XPS elements - adhesive joint ≤ 1 mm - concrete base [MPa]	≥0,08
Tensile strength perpendicular to the connection surface: Aggregate concrete elements - adhesive joint ≤ 5 mm - concrete base in conditions 0°C i 30°C RH 30% [MPa]	≥0,09
Tensile strength perpendicular to the connection surface: Mineral wool elements - adhesive joint ≤ 5 mm - concrete base in conditions 0°C i 30°C RH 30% [MPa]	≥0,07
Conditions of application	**Value**
Can / applicator temperature (optimal +20°C) [°C]	+5 - +35
Ambient/surface temperature [°C]	0 - +35
Colour	**Value**
Yellow	+

METHOD OF USE

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

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, silicate blocks, 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.

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.

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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 straw trigger in order to maintain required bead diameter. Keep the straw in the already applied adhesive mass – abt. 1 cm above the surface.
- General application instructions: apply the adhesive to the surface with a braid with a diameter of 2-3 cm (the diameter of the braid depends on the structure of the substrate). After application, wait min. 1 min (but no more than 2 min) after which join the glued elements. Possible correction time up to 3 min. For large surfaces such as gypsum board or OSB, the glue should cover ≥ 5% of the bonding area. For small decorative elements, the adhesive should cover ≥ 50% of the adhesive surface. The recommended joint thickness is ≤5 mm. For irregularities exceeding 0.5 cm, it is necessary to level the surface. When gluing elements to the ceiling or vertical surfaces, it is recommended to hold until a grip is achieved. It is recommended to use mechanical joints. The time for full curing of the adhesive is 24 hours. Once fully cured, the adhesive is easy to cut, sand, apply plaster or paint. Protect the glue from UV rays using, for example, 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 ≥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.

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. 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. The can should be shaken prior to application.
- If the adhesive is not fully used up, after completion of work the applicator and valve should be cleaned with polyurethane foam cleaner. 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.

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Remarks / restriction

- 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).
- Hardened adhesive may only be removed mechanically (e.g. with a knife).
- The adhesive should not be used in spaces without access of fresh air and poorly ventilated or in places exposed to direct sunlight.

ADDITIONAL INFORMATION

All given parameters are based on tests and laboratory tests in accordance with the manufacturer's internal standards and strongly depend on the conditions of foam curing (temperature of the can, environment, substrate, quality of the equipment used and the skills of the person applying the foam). For gaps greater than 2 cm, the parameter values may differ from those declared in the technical data table.

TRANSPORT / STORAGE

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).

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

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SAFETY AND HEALTH PRECAUTIONS

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