

TYTAN PROFESSIONAL Construction

GUN PU Adhesive 750 ml grey



10051712

PU Construction Adhesive is a reliable solution for anyone who values durability and versatility in construction and finishing work. It can easily be used to bond wood-based materials (OSB, MDF, HDF) to walls and floors, as well as finishing and decorative elements made of polystyrene, plaster, wood, natural stone, and decorative stone panels. It is also suitable for bonding ceiling panels, wall cladding, baseboards, and for installing stair treads and risers. In addition, it can be used to bond cork to concrete, wood, brick, or metals (e.g., for soundproofing garages, containers, etc.) as well as for constructing non-load-bearing partition walls and casings made of aerated concrete. It is intended for use both indoors and outdoors. It can be applied at temperatures as low as -10°C.



BENEFITS

- Application temperature as low as -10°C
- High bonding strength
- Adjustment time: 15 minutes
- Easy to transport, requires few tools, simple application, adheres to many types of surfaces used in construction
- 1 can replaces a 25-kg bag of traditional mortar, yielding 40 running meters per can

RECOMMENDED USES

- bonding wood, metal, Styrofoam, concrete, OSB, MDF, HDF, and stone
- installing decorative elements, coffered ceilings, baseboards, and stone panels
- building partition walls and enclosures
- fastening stairs, wood panels, and drywall

TECHNICAL DATA

Parameter (+23°C/50% RH)	Value
Full cure time (RB024) [h]	24
Open time [min]	≤5
Correction time [min]	≤15
Heat conductivity coefficient (RB024) [W/mK]	0,035
Flammability class (DIN 4102)	B3
Class of reaction to fire (EN 13501-1:2008)	F
Mechanical anchoring [h]	2
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]	40
Tensile strength perpendicular to the surface of EPS components (joint ≤ 8 mm) [kPa]	≥80
Tensile strength perpendicular to the plasterboard surface (joint ≤ 8 mm) [kPa]	≥100
Tensile strength perpendicular to the surface of XPS elements (joint ≤ 8 mm) [kPa]	≥100
Tensile strength perpendicular to the surface of wood parts (joint ≤ 8 mm) [kPa]	≥100
Tensile strength perpendicular to the surface of natural stone elements (joint ≤ 8 mm) [kPa]	≥100
Tensile strength perpendicular to the surface of MDF parts (joint ≤ 8 mm) [kPa]	≥110
Tensile strength perpendicular to the surface of wood-based boards (OSB/3) (joint ≤ 8 mm) [kPa]	≥120
Tensile strength perpendicular to the surface of gypsum parts (joint ≤ 8 mm) [kPa]	≥120
Tensile strength perpendicular to the surface of PVC parts (joint ≤ 8 mm) [kPa]	≥120
Tensile strength perpendicular to the surface of HDF parts (joint ≤ 8 mm) [kPa]	≥130

Tensile strength perpendicular to the surface of aluminum parts (weld ≤ 8 mm) [kPa]	≥ 130
Tensile strength perpendicular to the surface of concrete elements (joint ≤ 8 mm) [kPa]	≥ 120
Conditions of application	Value
Can / applicator temperature (optimal +20°C) [°C]	+10 - +30
Ambient/surface temperature [°C]	-10 - +30
Adhesion	Value
OSB (joint 1,5 mm) [kPa]	≥ 110
Concrete (joint ≤ 1 mm) [kPa]	≥ 500
Clay masonry elements (joint ≤ 1 mm) [kPa]	≥ 200
Silicate blocks (joint ≤ 1 mm) [kPa]	≥ 600
Metal sheet with polyester coating (joint 1,5 mm) [kPa]	≥ 120
PVC (joint 1,5 mm) [kPa]	≥ 130
Roofing felt with mineral sprinkle (joint 3 mm) [kPa]	≥ 40
Laminate floor panels (joint 1,5 mm) [kPa]	≥ 170
Wood (joint 1,5 mm) [kPa]	≥ 260
Glass (joint 1,5 mm) [kPa]	≥ 110
Colour	Value
Light gray	+

METHOD OF USE

Prior to application, read safety instruction presented in MSDS.

Surface preparation

- The adhesive presents ideal adhesion to typical construction materials, such as: brick, concrete, plaster work, wood, metals, styrofoam, hard PVC and rigid PUR.
- 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

- 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”.
- 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 guidelines: Apply adhesive onto the substrate, with bead diameter of Ø 2-3 cm (bead diameter depends on the evenness of the substrate). Wait 1 min. after application and join the elements together, but no later than 5 min. after application. Position of bonded elements can be corrected within 15 min. In case of large surfaces such as drywall or OSB, the adhesive should cover ≥ 5 % of the bonding surface. In case of small decorative elements, adhesive should cover ≥ 50 % of bonding surface. Recommended joint thickness is ≤ 5 mm. If elements are bonded to the ceiling or vertical surfaces, they must be temporarily fastened in place for 15 min. It is recommend to use mechanical connectors and distances. Mechanical anchors can be inserted after 2h. Full cure time 24 h. Once fully cured, adhesive is easy to cut, sand, plaster or dispersion paint (acrylic, latex). Protect against UV with plaster, paint or tape.
- 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/ steps around tread or riser keeping 5cm from the edges.
- Installation of internal thermal insulation of the roof: 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.

Remarks / restriction

- Do not use the product at temperatures lower than recommended.
- 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.
- 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.

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.

The manufacturer recommends to commence finishing works after full hardening is completed, i.e. after 24 h. The result given for a foam strip of 3 cm diameter.

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 at temperatures above +30°C shortens the shelf life of the product, negatively affecting its parameters. The product can be stored at a temperature of -5°C, but for no longer than 7 days (excluding transport). It is not allowed to store containers with glue at temperatures above +50°C or near an open flame. Storing the product in a position other than recommended may cause the valve to become blocked. The can cannot be squeezed or pierced even when it is empty.

Do not store the product in the car cabin. Transport 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

CATALOGUE DATA

Nominal capacity / volume / size	Colour	Number of pieces per collective package	Index	EAN Code
750 ml	grey	12	10051712	5902120246144

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.