

TECHNICAL DATA SHEET

PENOSIL Hybrid Polymer Turbo-Tack 701

Fast and strong hybrid adhesive

One-part elastic adhesive with immediate grab and high strength, which quickly reaches the final performance, based on new hybrid technology.

Weather-resistant, completely neutral and odourless curing, specially designed for fast, elastic, durable and highly resistant bonds in construction, metal industry, auto, marine, etc., for multiple bonding and sealing applications.

Main benefits

- Extremely high initial grab
- Fast curing
- Can be applied to moist surfaces
- Forms a strong and elastic bond
- High final strength
- Excellent adhesion to a wide range of materials
- Very good UV, weather and ageing resistance
- Silicone, isocyanates and solvent free
- Non-corrosive
- Impact and vibration absorbing
- Suitable for uneven surfaces
- For both interior and exterior applications
- Easy to apply
- Permits painting (test previously)



Colour

Black, white, brown and grey.

Package

290 ml cartridge, 24 pcs in a box.

Storage conditions and shelf life

Guaranteed shelf life 12 months from the manufacturing date when stored in closed original package in a dry place and protected from direct sunlight at temperatures between +5 °C and +30 °C.

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Fields of application

- Immediate gluing and fixing of elements in construction and decoration: profiles, plinths, skirting boards, mouldings, sconces, plasterboard, thermal and acoustic insulation plates, windowsills, rooftiles, tiles, metals, etc.
- Flexible gluing of panels in walls.
- Expanded polystyrene bonding.
- Thermal and acoustic insulation panelling in refrigerated containers, caravans, motorhomes, commercial vehicles.
- Bonding applications, even on wet surfaces, in the marine industry.
- Fast and elastic bonds in vibrating constructions.

Adhering

- Concrete
- Bricks
- Ceramics
- Marble
- Stones
- Plaster
- Tiles
- Metals
- Wood
- PVC
- Plastics

Technical classifications and certificates

- French VOC-emission class A+
- EMICODE® EC 1 Plus - very low emission

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Technical data

Properties	Value	Unit
Basis	Hybrid	
Consistency	Non-Slump paste	
Density (DIN 53 479-B)	1,55	g/ml
Skin forming time	5...10	min
Curing Rate	2...3	mm/24h
Resistance to flow (ISO 7390)	0	mm
Application temperature	+5...+40	°C
Service temperature	-40...+90	°C
Shore A hardness (ISO 868)	65	
E-Modulus 100% (ISO 37)	1,80	N/mm ²
Tensile strength (ISO 37)	2,50	N/mm ²
Elongation at break (ISO 37)	>250	%
VOC content (SCAQMD rule 1168)	27	g/l

The values specified were obtained at +23 °C and 50% relative humidity, unless otherwise specified. These values may vary depending on environmental factors such as temperature, moisture and type of substrates.

Application instructions

Application conditions

Application temperature between +5 °C and +40 °C.

Surface preparation

The surfaces to join must be clean and free of old residues, polish, dust, grease, and other contaminant which may affect the adhesion. It is recommended that they are also dry or eventually damp, but not wet supports are preferable. Painted surfaces must be well cured and free of loose paint. If necessary, fill all the perforations and irregularities of the support, trying to obtain a support as flat as possible.

Application method

Cartridge: cut off the threaded end of the cartridge and screw on the application nozzle for directing sealant. Cut the threaded end in a way where a suitable opening for application is produced. Place the cartridge together with the applicator in the gun and fill the installation nozzle with sealant, by repeatedly pressing the gun trigger.

After substrate preparation, apply the adhesive evenly with a professional caulking gun, ensuring good contact with the surfaces to be bonded. Observe the eventually used primer's open time before applying.

Apply in strips or little spots on the bonding surface at intervals of a few centimetres. Place immediately the surfaces together in the required position and press firmly. If necessary, use adhesive tape, wedges or props to hold the assembled element for the initial hours of curing. An incorrectly positioned element can be easily unfastened and repositioned in the first few minutes after application. Apply pressure again. Optimum bonding will be obtained after completed curing, i.e. after 24 to 48 hours at +23 °C for a thickness between 2 to 3 mm.

Ensure adequate ventilation in all joint locations. During the curing process, make sure that no impurities can settle on the surface and that the joint surface is not affected by mechanical load.

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Cleaning

Uncured product can be cleaned with solvents like white spirit, acetone or with PENOSIL Cleaning Wipes.
Cured sealant can be removed mechanically. If needed silicone remover should be used.

Limitations

- Do not use as a glazing sealant, on bituminous substrates or on building materials which might bleed oils, plasticizers or solvents. (e.g. rubber, chloroprene, EPDM, ...).
- There is no adhesion to PE, PP, PTFE (Teflon®).
- Due to the wide variety of possible substrates, we recommend a preliminary compatibility test.
- Paintability: Due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.
- It can be repainted after full curing, with water-based industrial lacquers and with dry powder paints, for up to 30 minutes, in a paint shop, for as long as the temperature does not exceed +180 °C.
- Please observe the expiration date!

Safety regulations

Ensure sufficient ventilation during application and wear necessary personal protective equipment. More specific safety information is available on the safety data sheet (SDS).

Note: The instructions in the present documentation are based on tests carried out by the manufacturer and are presented in good faith. Due to variations in materials and substrates as well as the various application possibilities that are beyond our control, the manufacturer is not liable for the results achieved. In any case, it is recommended to test the product suitability at the place of application. Manufacturer reserves the right to modify products without prior notice. This TDS replaces and supersedes all previous data sheets on the same product.

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