PENOSIL

TECHNICAL DATA SHEET

Hybrid Polymer TURBO-tack 701

FAST AND STRONG HYBRID ADHESIVE

PRODUCT DESCRIPTION

PENOSIL Hybrid Polymer TURBO-tack 701 is a one-part elastic adhesive with immediate grab and high strength, which quickly reaches the final performance, based on new hybrid technology.

Specially designed for fast, elastic, durable and highly resistant bonds in construction, metal industry, auto, marine, etc., for multiple bonding and sealing applications.

Weather-resistant, completely neutral and odourless curing, PENOSIL Hybrid Polymer TURBO-tack 701 has minimal health and safety considerations.

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.
- For both interior and exterior applications.
- Easy to apply.
- Permits painting (test previously).

ENVIRONMENTAL REGULATIONS

- EMICODE® EC 1 Plus: very low emission.
- French VOC emissions Class A+.

PACKAGING

The product is available in 290 ml. cartridges (24 unit boxes, 56 box pallets)

* European pallets, 120x80 cm

Other packaging under request.

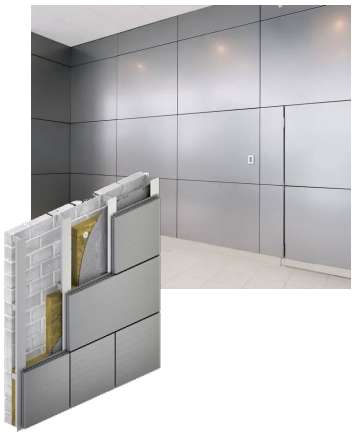
COLOURS

Black and white.
Other colours on request.

STORAGE

The shelf life is 12 months in the original unopened packaging, in dry conditions and protected from direct sunlight at temperatures between +5°C and +25°C.

APPLICATIONS



- Immediate gluing and fixing of elements in construction and decoration: profiles, plinths, skirting boards, moldings, sconces, plasterboard, termal and acoustic insulation plates, window sills, roof tiles, tiles, metals, etc.
- Flexible gluing of panels in walls.
- Expanded polystyrene bonding.
- Thermal and acoustic insulation paneling in refrigerated containers, caravans, motor-homes, commercial vehicles.
- Bonding applications, even on wet surfaces, in the marine industry.
- Fast and elastic bonds in vibrating constructions.

TYPICAL TECHNICAL DATA

Basis:		Hybrid Polymer
Consistency:		Non-slump paste
Specific gravity:	*(ISO 2811-1)*	Approx. 1,55 g/ml
Skin forming time:	*(OQ.16-internal)*	5-10 minutes (at 23˚C; 50% H.R.)
Curing rate:	*(OQ.18-internal)*	2-3 mm/24 h
Resistance to flow:	*(ISO 7390)*	Approx. 0 mm (at 5˚C and 50ºC)
Total VOC content:	*(SCAQMD rule 1168)*	Approx. 27 g/l
Consumption:	*(Nozzle diameter: 8 mm)*	Approx. 50 ml/linear meter
Shore A Hardness:	*(ISO 868)*	65
Application temperature:		+5˚C a +40˚C
Service temperature:		-40˚C a +90˚C
Tensile properties:		
ISO 37 (2 mm thickness, S2 dumbbells, 7 days, 23ºC; 50% R.H.)		
E-Modulus 100%		1,80 MPa
Tensile strength		2,50 MPa
Elongation at break		> 250%

These values may vary depending on environmental factors such as temperature, moisture and type of substrate. The time until complete curing may be extended at lower temperature, lower humidity or increasing film thickness.

DIRECTIONS FOR USE

Surface preparation and adhesive application

A. Cleaning and Surface preparation:

The surfaces to joining 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.

B. Primer:

PENOSIL Hybrid Polymer TURBO-tack 701 adheres to most common construction materials without primer, such as concrete, brick, stone, marble, tiles, ceramics, galvanized steel, stainless steel, iron, painted metals, lacquered aluminium, anodized aluminium, wood, melamine, plaster, glass, PVC, polycarbonate, plastics, etc. However, a preliminary adhesion test is always recommended on every particular surface. Sometimes it may be necessary to treat the surfaces with a primer to obtain better adhesion performances. Please contact us for technical assistance.

C. Adhesive application:

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 centimeters.

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.

D. Curing:

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.

E. Cleaning:

Uncured product may be easily removed with alcohol. Cured sealant must be removed mechanically.

F. Coverage:

The estimated consumption is approximately 50 ml/linear meter, for an application with a nozzle of 8 mm diameter.

Remarks

Do not use PENOSIL Hybrid Polymer TURBO-tack 701 as a glazing sealant, on bituminous substrates or on building materials which might bleed oils, plasticizers or solvents (for example, natural rubber, chloroprene, EPDM, ...).

There is no adhesion to PE, PP, PTFE (Teflon®) or silicone. 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.

Safety

The uncured product must be used in well-ventilated areas, avoiding contact with skin and eyes. Keep out of the reach of children.

Information relating to the safety of the product is available on the safety data sheet (SDS) Before using the product, we advise you to carefully read the SDS and the safety labels on the packaging.

GUARANTEE INFORMATION

WOLF GROUP warrants that its product complies, within its shelf life, to its specification.

If any responsibility were to be considered ours, this would be only for any damages and for the value of the merchandise supplied by us and used by the customer. It is over understood that we warranty the irreproachable quality of our products in accordance with our General Conditions of Sales and Supply.

Liability

The information in this document, in particular recommendations regarding the application and final use of our products, are given in good faith based on our knowledge and is the result of tests and experience and are intended as guidelines. It is the responsibility of the user to determine whether the product is suitable for the application. Due to the great variety of materials and conditions, which are beyond our knowledge and control, we recommend carrying out sufficient previous trials.

The property rights of third parties must be respected.

TECHNICAL DATA SHEET
Penosil Hybrid Polymer Turbo-tack 701
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This TDS replaces and supersedes all previous data sheets on the same product.

penosil.com

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