

TECHNICAL DATA SHEET

PENOSIL SpeedFix Seal&Bond 750

Elastic hybrid adhesive

PENOSIL SpeedFix Seal&Bond 750 is a one-component, permanently elastic, fast curing adhesive/sealant, based on innovative hybrid polymer technology, for both indoor and outdoor applications.

PENOSIL SpeedFix Seal&Bond 750 is engineered for use in a wide range of bonding and sealing applications, with excellent adhesion to most substrates.

Completely weather resistant, neutral and odourless curing, it has minimal health and safety considerations, because does not contain solvents, silicones or isocyanates.

Main benefits

- High performance mechanical properties.
- Fast curing, nearly no shrinkage.
- Excellent adhesion to a wide range of materials.
- Very good UV, weather and ageing resistance.
- Silicone, isocyanates and solvent free.
- Non-corrosive.
- Easy to apply, even in adverse conditions and low temperatures.
- For both interior and exterior applications.
- Can be applied to damp surfaces.
- Permits painting, with water-based paints and many other systems. Previous test is recommended.

**Colour**

White.

Package

290 ml cartridge, 24 pcs in a box.

Storage conditions and shelf life

Guaranteed storage time 12 months starting from the date of manufacture if stored in a closed original package in a dry place between +5 °C and +30 °C.

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Fields of application

- Multipurpose bonding and sealing in the building sector, indoors and outdoors, even onto humid and damp surfaces.
- Installation (bonding and sealing) of windowsills, skirting boards, parapets, flashings, decorative elements, decking, planks, etc.
- Adhesion in constructions with vibrations (vehiclebody, containers, metal-to-metal ...).
- Elastic adhesion and sealing in many different industrial applications.
- Connection low movement walljoints (horizontal and vertical). Joints between window or doorframes and brickwork, stairs, balconies, etc.
- Bonding and sealing in ventilation & air-conditioning ductwork.

Adhering

- Concrete
- Brick
- Marble
- Tiles
- Ceramic
- Fiberconcrete
- Galvanized steel
- Stainless steel
- Iron
- Lacquered aluminium
- Anodized aluminium
- Painted metals
- Wood
- Glass
- PVC

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Technical classifications and certificates

- Sealant for facade for interior and exterior application, intended for use in cold climate
EN 15651-1:2012: Type: F-EXT-INT-CC
- Sealants for non-structural use in joints in buildings and pedestrian walkways
EN 15651-4:2017: Type: PW-INT
- ISO 11600 - F 25HM
- EMICODE® EC 1 Plus - very low emission
- French VOC emissions class A+

Technical data

Properties	Value	Unit
Basis	Hybrid	
Consistency	Non-Slump paste	
Density (DIN 53 479-B)	1,58	g/ml
Tack free time	5...10	minutes
Skin forming time	15...20	minutes
Curing Rate	2...3	mm/24h
Loss of volume (ISO 10563)	<5	%
Resistance to flow (ISO 7390)	0	mm
Application temperature	+5...+40	°C
Service temperature	-30...+80	°C
Movement capability (ISO 11600)	±25	%
Elastic recovery (ISO 7389)	>80	%
Shore A hardness (ISO 868)	58	
E-Modulus 100% (ISO 37)	1,7	N/mm ²
Tensile strength (ISO 37)	2,2	N/mm ²
Elongation at break (ISO 37)	>200	%
E-Modulus 100% (ISO 8339)	0,90	N/mm ²
Tensile strength (ISO 8339)	1,30	N/mm ²
Elongation at break (ISO 8339)	>200	%
Density (EN-ISO 2811-1)	ca. 1,56	g/ml
VOC content (SCAQMD rule 1168)	ca. 24	g/l

The parameters indicated have been measured at +23 °C and 50% relative air humidity.

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Application instructions

Application conditions

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

Surface preparation

The surfaces must be dry, clean from dust, loose particles and oil. Non-porous surfaces should be cleaned with solvent and a clean, non-fluffy cotton cloth. Solvent excess should be removed before evaporating with a clean cloth. It is recommended that the surfaces are also dry or eventually damp, but not wet. 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 adhesive. 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 adhesive, by repeatedly pressing the gun trigger.

Foil package: open the end of the foil pack and place the pack inside the gun so that the dosing nozzle keeps covering its open portion. Place the dosing nozzle on the open end and screw on the cap to close the tube. Cut the nozzle to create a suitable opening for dosing adhesive.

Apply the adhesive in strips or little spots on the bonding surface at intervals of a few centimeters to be connected and immediately press to the substrate. An incorrectly positioned element can be easily unfastened and repositioned in the first few minutes after application. Apply pressure again.

Support until product is fully cured. Protect the adhesive against moisture and ensure a good ventilation during the curing period. Optimum bonding will be obtained after completed curing, after 24 to 48 hours at +23 °C for a thickness between 2 to 3 mm.

Cleaning

Clean the uncured adhesive with solvent such as acetone or use special cleaning wipes. Cured adhesive can only be removed mechanically.

Limitations

- Do not use on bituminous substrates or on building materials which might bleed oils, plasticizers or solvents (e.g. natural rubber, chloroprene, EPDM, ...).
- There is no adhesion to PE, PP, PTFE (Teflon®).
- Not suitable for use as an exterior glazing sealant.
- Paintable. It is recommended to apply water-based paints.
- Due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.
- Due to the wide variety of possible substrates, we recommend a preliminary compatibility and adherence test. If necessary, prime surfaces to improve adhesion.
- Due to the wide variety of influences during and after application, the customer must always test the product first.
- Please observe the expiration date!

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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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