

TECHNICAL DATA SHEET

PENOSIL Floor&Wall UniversalFix 619

Water-based acrylic adhesive with low viscosity and strong immediate adhesion for gluing different floor and wall coverings.

Main benefits

- Excellent adhesion to a wide range of materials.
- Does not contain organic solvents.
- Suitable for heated floors.
- Low viscosity.
- Low VOC.

Fields of application

- Suitable for bonding floor and wall coverings to absorbing and non-absorbing substrates.
- The adhesive has a good adherence even on a smooth and absorbing substrate.
- Suitable for heated floors.

Adhering

Adheres well to vinyl, cork, linoleum, PVC and felt. cement, self-levelling compounds, plasterboard, concrete and fibreboard.

Application instructions

Application conditions

Application temperature between +18 °C and +25 °C. Relative humidity in the room should not exceed 65%. Prior to gluing, the adhesive and the material to be glued should achieve the same temperature as the floor (+18 °C to +25 °C). Relative humidity of the substrate should be 85–90% RH at the maximum, depending on the material. Protect from moisture, if needed. Concrete floors and floors made from a levelling compound are recommended to be primed. When installing floor or wall coverings, instructions by the manufacturer should always be followed. With regard to floor heating, the precautions according to the manufacturer of the flooring should always be followed.

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. Subfloor condition should be checked in accordance with effective construction requirements and DIN 18356. Grind cement, concrete and self-levelling substrates and uneven, older and unstable substrates, until a strong, adherent surface is achieved. After grinding, remove dust from the floor.

Application method

Prior to application, the adhesive should be well stirred. Apply the adhesive to the substrate, by using a trowel. Do not use more adhesive than is needed for gluing the flooring. Install the flooring immediately or after a short waiting period. Spread the adhesive well in order to remove excess air and ensure a good contact between the adhesive and the flooring. Best results are achieved by using a flooring roller. Make sure that the whole flooring surface has a good contact with the adhesive.

Wet gluing: Apply the adhesive by using a trowel. Place the material to be glued on a wet adhesive. The latest time for wet gluing is up to 20 minutes after applying adhesive to the substrate. The glued material should be well rubbed by using a suitable tool.

Double-sided gluing: Apply the glue with a trowel. Place the material to be glued on a wet adhesive, separate the surfaces and let the adhesive dry for 5–10 minutes before connecting the glued surfaces again. When using double-sided contact gluing, it is very important that the cover is pressed strongly against the surface. In wet rooms, all joints of the flooring should be sealed.

Flooring	Consumption	Application method	
		Absorbing surfaces	Non-absorbing surfaces
Vinyl, even	4–5 m ² /l	Wet gluing	Double-sided gluing
Foam backed vinyl flooring	4–5 m ² /l	Wet gluing	Wet gluing
Mesh backed vinyl flooring	4–5 m ² /l	Wet gluing	Wet gluing
Vinyl plates	4–5 m ² /l	Wet gluing	Double-sided gluing
Cork with PVC	4 m ² /l	Wet gluing	Wet gluing
Felt flooring	2–3 m ² /l	Wet gluing	Wet gluing
Carpets	4–5 m ² /l	Wet gluing	Wet gluing
Coconut carpets	2–3 m ² /l	Wet gluing	Wet gluing

Cleaning

Clean the uncured adhesive with water or use PENOSIL Cleaning Wipes. Cured adhesive should be removed mechanically.

Technical data

Properties	Value	Unit
Covering capacity	0,2...0,25	l/m ²
Basis	Acrylic	
Consistency	Liquid	
Density (DIN 53 479-B)	1,3	g/ml
Open time	5...20	min
Curing time	1	hours
Application temperature	+18...+25	°C
Service temperature	-30...+70	°C
Shelf life	12	months
Shore A hardness (ISO 868)	70	
Properties of cured sealant		
E-Modulus 100% (ISO 37)	1,5	N/mm ²
Tensile strength (ISO 37)	1,5	N/mm ²
Elongation at break (ISO 37)	400	%

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.

Colour

Light yellow, beige after curing.

Package

1kg bucket.
3kg bucket.
5kg bucket.
15kg bucket.

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. Avoid freezing.

Limitations

- Not suitable for surfaces in permanent contact with water.
- There is no adhesion to PE, PP, PTFE (Teflon®).
- Due to the wide variety of possible substrates, we recommend a preliminary compatibility test.

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.