

TECHNICAL DATA SHEET

PENOSIL ECO Elastic Acrylic 622

Elastic paintable sealant based on sustainable raw material. Suitable for interior and exterior applications. Made using sustainable technologies. The sustainable content of the sealant is 81,9%.

Main benefits

- High movement capability acrylic ($\pm 12,5\%$)
- Easy to use
- UV and ageing resistant
- Easy to clean
- Solvent-free, phthalate-free and odorless
- Great adhesion to many different substrates
- Cured product can be painted over

Fields of application

- Excellent for applications where regular acrylic may fail
- Joints between window and wall
- Inner wall corners
- Sealing movable indoor and outdoor connection
- Joints between the door frame and wall
- Joints between different surfaces before finishing works and painting
- Important! Early painting may cause cracking of the paint

Adhering

- Gypsum board
- Concrete
- Glass
- Masonry
- Wood
- Ceramics
- PVC
- Treated metals

Application instructions

Application conditions

Application temperature between $+5^{\circ}\text{C}$ and $+40^{\circ}\text{C}$.

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.

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. Cut the nozzle to create a suitable opening for dosing sealant.

Apply sealant in the joint by repeatedly and evenly pressing on gun trigger and smoothly dragging the nozzle along the joint. After application, smooth the surface with a suitable tool (e.g., spatula) and remove excess material.

Paintable after the final curing. Curing time depends on the size of the joint (2,5-3 mm/day). Early painting can cause cracking of the paint.

It is strongly recommended to cover cured caulk with a suitable paint to guarantee its longevity and similar colour shade with the background surface.

Cleaning

Uncured acrylic can be removed with water or with special cleaning wipes.

Cured acrylic should be first removed mechanically and then with a moist cloth.

Technical data

Properties	Value	Unit
Basis	Acrylic	
Density (DIN 53 479-B)	1,35	g/ml
Tack free time	8...10	min
Resistance to flow (ISO 7390)	0	mm
Intensity of microbiological grows (ISO 846)	2	
Application temperature	+5...+40	°C
Service temperature	-30...+75	°C
Shore A hardness (ISO 868)	8...12	
Properties of cured sealant		
E-Modulus 100% (ISO 37)	0,1	N/mm ²
Tensile strength (ISO 37)	0,27	N/mm ²
Elongation at break (ISO 37)	>300	%

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.

Technical classification and certificates

- Sealant for facade for interior and exterior application, suitable for cold climate.
EN 15651-1:2012: Type F-INT-EXT-CC: CLASS 12,5E
- EMICODE® EC 1 Plus - very low emission

Colour

White.

Package

300 ml cartridge, 12 pcs in a box.

Storage conditions and shelf life

Guaranteed shelf life 18 months from the manufacturing date when stored in closed original package in a dry place at temperatures between +5 °C and +30 °C. Avoid freezing and temperatures over +30 °C.

Short-term resistance to freezing, max 10 days at temperatures over -18 °C.

Freeze-thaw resistance 7 cycles at temperatures -18 °C and +23 °C, one cycle lasting 48 hours (24 hours at -18 °C and 24 hours at +23 °C).

Limitations

- It should not be applied on bituminous or tar containing substrates, and to materials that bleed oils or plasticizers. Do not use in damp or wet conditions or if rain is imminent.
- Not recommended for applications in constant contact with water.
- Early painting may cause cracking of the paint
- Not suitable for joints with movement more than 12,5% of the joint width.
- 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!

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.