PERESEAL PU POLYURETHANE SEALANT

Technical Data

Base	Polyurethane
Consistency	Thixotropic
Curing system	Moisture curing
Tack-free time (23°C, 50% R.H.)	30-70 min
Curing rate (23°C, 50% R.H.)	Min. 2.5 mm / 24 hrs
Sagging (EN ISO 7390)	0 mm
Hardness (Shore A after 28 days) (ASTM C661)	35 – 40
Specific gravity	1.17 – 1.23
Temperature resistance	-40°C to 90°C
Application temperature	+5°C to +40°C
Elongation at break (Glass – glass) (ISO 8339)	>100%
Elongation at break (DUMBLE Test) (ASTM D412)	>600%
Tensile strength (DUMBLE Test) (ASTM D412)	1.5 – 2.0 N/mm^2
E100 Modulus (23°C) (ISO 8339)	0.35 – 0.40 N/mm^2
Elastic recovery (ISO 7389)	≥ 70%
Movement capability	25%
Paintability	Yes

Product

PERESEAL® PU Sealant is a one-component, high-performance polyurethane sealant that cures on exposure to humidity. It has excellent elasticity and possesses excellent adhesion to all typical construction materials such as cement based materials, concrete, brick, ceramic, glass, wood, galvanized and painted sheet iron and various plastics.

Application

- Expansion joints between many different construction materials
- Indoor and outdoor applications for pedestrian and traffic areas
- Bonding of roof tiles
- Installation of PVC window frames
- Connection joints between wood window- and doorframes and walls
- Joints between prefabricated construction materials
- Sealing and bonding of ventilation ducts, gutters and spouts etc.
- For expansion joints between pre-cast concrete panels

Properties

- Possesses permanent elasticity
- No sagging – thixotropic
- No surface tackiness after full cure; does not pick up dirt
- No shrinkage
- Enhanced storage stability
- Can be applied with hand gun and tooled easily
- Paintable
- Cures bubble-free
- 25% movement capability
- Low VOC

Substrate

Suitable for most building materials. Surfaces must be clean and dry, free of dirt, wax, oil and grease.

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Application method
- Before application, be sure that joint surfaces are clean, dry and free of all contamination.
- Use an applicator gun (manual or pneumatic caulking gun).
- Apply sealant evenly. If necessary, use masking tape and remove the tape before sealant skins.
- Joint width/depth ratio should be 2:1
- If necessary, use back up material to adjust joint depth
- Sealants should adhere to only two surfaces of the joint: use backer rods and bond breakers to facilitate.

Storage and shelf life
12 months for unopened packaging in a cool and dry storage place at temperature between +10ºC to +25ºC

Packaging
600 ml per sausage, 12 sausages per box

Colour
Concrete Grey

Joint Size
- Min. width 10 mm
- Max. width 50 mm
- Min. depth 5 mm
- Recommendation 2 x joint width = joint depth

Safety Measures
Take usual hygiene precautions. Refer to the Safety Data Sheet of the product for other safety measures.

Remarks
- Avoid application below 5°C and above 40°C.
- Do not apply on frozen or wet surfaces or through standing water

Conformity
- ASTM C920:2001 – TÜV SÜD PSB
- HDB Specification: Sealant – Semi-Precast Construction
- HDB Approved Material for Sealants – Semi-Precast Construction
- HDB Approved Material for Sealant for Aluminium Window

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