eile PSM 700

Polysulfide-Based, High-Performance Joint Sealant
Description

A two-component, elastomeric, high-performance polysulfide joint sealant.

Areas of Application
- All interior and exterior surfaces, both horizontal and vertical (there are two types: pourable for horizontal applications and trowel method for horizontal and vertical applications).
- Prefabricated element joints.
- Construction expansion joints.
- Airports, bridges, tunnels, and highways.
- Industrial concrete floors.
- Water and wastewater tanks, sewage pipes.
- Industrial and chemical waste facilities.
- Petrol and gas stations.
- Surfaces like steel, aluminium, metal, copper, stone, plastic, wood, glass, brick, concrete.

Product Features
- Resistant to UV and ozone.
- High chemical resistance (refer to the resistance list).
- Resistant to jet fuel and oils.
- Solvent-free.
- Does not shrink or crack.
- Antibacterial.
- Has high adhesion properties.
- Provides permanent impermeability.
- Can be used in drinking water tanks.
- Unaffected by weather conditions and expansion movements.
- Possesses high flexibility and elastoplastic properties.

Application Procedure

Surface Preparation
The width of joints where ***eile PSM 700*** will be used should be between 10 mm and 200 mm. The depth of the joint should be about half its width. For concrete and stone surfaces in expansion joints, both inner and outer surfaces should be dry, load-bearing, dust-free, clean, and smooth. For steel surfaces, oil, grease, rust, and other contaminants that could weaken adhesion must be thoroughly cleaned, and sandblasting should be performed to achieve a suitable surface. If sandblasting is not possible, a pneumatic chisel or wire brush can be used for cleaning. Before application, polyethylene backer rods can be used to adjust the depth and provide support underneath the sealant.

JOINT SURFACE	MINIMUM DEPTH
Flat and shiny like glass, metal	5 mm
Permeable and vertical	10 mm
Exposed to hydrostatic pressure	20 mm
Exposed to traffic	20 mm

Priming
Once surface preparation is complete, *eile PUR 710* is applied with a brush. The primer should be checked for dryness and should not wet the finger, ensuring slight tackiness before proceeding.

Mixing
The A and B components are mixed for 3-5 minutes at a low speed (200-300 rpm) using a drill to prepare the material for use.

Application Method
- ***eile PSM 700*** (for gunning consistency) is used for horizontal and vertical joints. The prepared material is loaded into a refillable aluminium mastic gun without air pockets and applied.
- ***eile PSM 700*** (for pourable consistency) is used only for horizontal joints. The material is prepared as described and poured into the joint using a pouring spout or a refillable aluminium mastic gun, after polyethylene backer rods have been inserted and the joint has been primed.

MINIMUM DEPTH OF JOINT SURFACE
- Smooth and glossy surfaces like glass and metal: 5 mm
- Porous and vertical surfaces: 10 mm
- Surfaces under hydrostatic pressure: 20 mm
- Surfaces exposed to traffic: 20 mm

Points to Note
- For applications on concrete surfaces, the concrete must be at least 28 days old and completely dry.
- After application, the material should be protected from water for at least 24 hours.

Packaging
- For trowelable consistency: Component A (10 kg) - Component B (1 kg)
- For pourable consistency: Component A (10 kg) - Component B (1 kg)

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Storage
Store in unopened original packaging between +10°C and +30°C, protected from sunlight, rain, and freezing conditions.

Shelf Life
The shelf life is 1 year from the production date, provided it is stored under the specified conditions in unopened packaging.

Technical Specifications

Composition: Polysulfide
Color: Grey
Density: 1.60 ± 0.05 gr/cm³
Application Temperature: 5°C / 40°C (20°C / 40°C for machine application)
Movement Capability: ~25%
Hardness (Shore A): 15-25
Elongation at Break: >200% (trowel), >400% (pourable)

The values reported above were obtained as a result of laboratory experiments. Values may vary due to differences in job site environment.

Heat	5°C	10°C	25°C	40°C
Working time	9 hours	6 hours	1 hours	45 min.
First curing	5 days	72 hours	24 hours	5 hours
Final curing	8 weeks	4 weeks	2 weeks	7 days

Safety Recommendations: During application, appropriate workwear, protective gloves, goggles, and masks in accordance with occupational health and safety regulations must be worn. Avoid contact with skin and eyes; if contact occurs, wash thoroughly with plenty of water. In case of ingestion, seek medical attention immediately. Store out of the reach of children. No food or drink should be kept in the areas where the application is taking place.

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