

Shieldseal PS300

Two-component, Polysulphide Rubber Sealant



MICSHIELD®

Description

Shieldseal PS300 is a two-part Polysulfide sealant, when mixed, forms an elastic, durable sealant, offered in pouring-grade and gun-grade ranges.

Uses

- For horizontal and vertical applications.
- Can be used in floor joints.
- Fuel and chemical storage tanks.
- Excellent adhesion characteristics to a wide range of substrates.
- Expansion and construction joints, tunnels, roads, retaining walls, wet areas, bridges, reservoirs as well as potable water and wastewater treatment tanks.
- Industrial applications.

Characteristics / Advantages

- Multi-component, strong elastomeric seal.
- Excellent adhesion to most substrates such as concrete, masonry, stone, metal, steel, and glass
- Excellent weathering and UV resistance.
- Long-term durability.
- Excellent elasticity, allowing for flexibility.
- High movement capability.
- Excellent chemical and fuel resistance.
- Provides a waterproof seal in water tanks.
- Withstands prolonged immersion in liquids.

Standard Compliance

- EN ISO 11600 - F - 25LM
- ASTM C920, Type M, Grades NS and P, Class 25, Use T, M, and O.

Shelf Life and Storage

Shieldseal PS300 has a shelf life of 12 months when stored in its original unopened packaging in cool and dry conditions, protected from direct sunlight, heat, and moisture. Shelf life may be reduced if the recommended storage conditions are not followed.

Typical Properties

Appearance	PG: Paste GG: Pourable
Color	Black or grey colors
Curing	Chemical Cure
Mixed Density	~1.60 Kg/L
Movement Accommodation Factor (ASTM C719)	± 25%
Shore A Hardness (ASTM D2240)	~15 for PG ~25 for GG
Curing Time	Initial (Foot Traffic): 24 h Final: 14 days

Packaging

Shieldseal PS300- PG is supplied in 4 L packs.

Shieldseal PS300- GG is supplied in 2.5 L packs.

Application Instructions

1. Surface Preparation and Priming

The joints must be clean, dry, and free from dust, surface contamination, and materials that may reduce bond or prevent adhesion. To remove dust, use oil-free compressed air. Concrete surfaces must be clean and dry. Metal surfaces must be free from rust; use grit blasting to remove corrosion. Prime surfaces and achieve a tack-free condition before application.

2. Joint Design

For movement joints, the width-to-depth ratio is 2:1
For butt joints: the width-to-depth ratio is 1:1

The maximum width is 50 mm, and the minimum is 6 mm.

Apply masking tape to areas adjacent to joints. Install backing (closed-cell or open-cell polyethylene foam backer rod), spacers, or joint filler to ensure the correct width-to-depth ratio. Application/ Substrate Temperature are + 5 to + 45 °C



3. Mixing

Component B (hardener/ catalyst) should be added to component A (base pack) and mixed using a low-speed mixing drill for 5 minutes while reaching the walls and bottom of the container until a homogeneous and consistent material is obtained. Once mixed, the material should be used within its specific working time.

4. Application

It is recommended to use masking tape on both sides of the joint, and preferable to start application from the bottom to the top for vertical joints to make sure that gaps are filled thoroughly. A spatula can be used for tooling the sealant.

The Pouring grade is poured directly from the pack into the joint.

The gun grade is applied using a sealant gun or trowel. Cut the nozzle at an angle of 45° and apply **Shieldseal PS300** using the sealant gun. Tool immediately to spread the sealant against the surface to give it a smooth finish. Remove the masking tape after application and tooling.

5. Cleaning

Uncured sealant may be removed from tools, equipment, and non-porous surfaces with solvents. For porous substrates, allow the sealant to cure before removal by peeling or other mechanical means. Cured sealant can only be removed mechanically by abrasion.

Safety Instructions

Use in well-ventilated area. Direct contact of uncured sealant may irritate eyes and skin. Over exposure to vapor may irritate eyes, nose, and throat. Do not handle contact lenses with sealant on hands. In case of eye contact, flush eyes with water for 15 minutes. Obtain medical attention. In case of skin contact, remove from skin and flush with water.

Technical Support

Refer to technical information, method statement, or contact technical support team for any inquiry.

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