

Technical Data Sheet

AS-4002 / AS-4002S Premier Construction Sealant



Physical Properties

Appearance:
Soft paste

Colours:
Matte black, matte grey & matte white

Tack-free / Skin-form time:
20 – 40 minutes

Application temperature:
5 °C to 40 °C

Service temperature:
-20 °C to 90 °C

Storage:
Store in a dry and cool place with temperature below 30 °C.

Shelf life:
9 months (cartridge)
12 months (sausage)

Packaging:

Content	Quantity/ carton
290 mL cartridges	20
600 mL sausages	20



Scan and learn

Visit product page:
<https://www.alsealmarketing.com/as-4002-premier-construction-sealant/>

Description

ALSEAL Premier Construction Sealant is a one-component, elastomeric joint sealant formulated with acrylic modified hybrid sealant, the premium grade of MS Polymer. The weatherability and UV resistance of the sealant is excellent, with much longer expected service life than other organic sealants in the market. The finishing is matt, less tacky, and with low electrostatic charge, thereby reducing fluid streaking issues on façade cladding caused by air-borne dust particles.

Besides, the formula is free of silicone oil, minimizing oil-staining or other building aesthetic issues caused by migration of silicone oil. Unlike polyurethane sealants, this sealant is free of isocyanate and solvent and thus no issues like blistering or shrinkage will occur. It also can adhere well to numerous substrates without primer, fast-curing, paintable with common water-based coatings, and it is a green product that complies with SCAQMD rule #1168 Low VOC limit.

Features

- ◆ Excellent weatherability – 10-year warranty
- ◆ ASTM C920 (Class 50) compliant
- ◆ Paintable
- ◆ No silicone oil – Non-staining on adjacent substrates
- ◆ Low static charge – Less dirt streaking
- ◆ No isocyanate – No blistering
- ◆ No solvent – No shrinkage
- ◆ Bonds most substrates without primer
- ◆ Matte finish

Applications

Specially formulated to seal metal (e.g. ACP) and stone (e.g. marble) façade cladding due to its excellent weatherability and non-staining/ less dirt-streaking characteristics. It is also recommended for sealing concrete joints like precast wall panel joints construction joints, control joints, expansion joints, and window frame perimeter sealing (PVC / Aluminum to concrete wall), both painted and non-painted surfaces. Other recommended applications include sealing of masonry, brickworks, anodized aluminum, stainless steel, porcelain, finished wood, coated metal, epoxy and polyester panels, uPVC, polystyrene, and many difficult substrates.

Technical Data

Curing system	: Moisture curing
Density	: 1.53 g/mL
Maximum tensile at break (ASTM D412)	: 1.0 N/mm ²
Elongation (ASTM D412)	: 530 %
Shore A hardness (ASTM C661)	: 27
Joint movement capability (ASTM C719)	: ±50 %
VOC content (USEPA Test Method 24)	: 46.61 g/L

Usage Instructions

1. Surfaces must be clean, dry and free of dirt, grease, oil or water.
2. For a neat finish, apply masking tape and remove it before sealant skins over.
3. 602 Primer is recommended for porous substrates such as natural stone for excellent adhesion.
4. Cut the tip off and puncture the internal foil seal with the nozzle. Cut the nozzle at 45° angle to desired bead-width and apply the sealant to substrate with a cartridge gun.
5. Tool the sealant before it skins.
6. Uncured sealant can be cleaned up with mineral spirits.
7. Use approved backing material for joints over 10 mm deep.



AS-4002 Premier Construction Sealant

Clean Up

- ◆ Wet sealants can be cleaned up with acetone or mineral spirits.
- ◆ Cured sealants can only be removed mechanically.

Joint Design

- ◆ Joint dimension should be designed by taking into consideration the movement capability of the sealant and the anticipated joint movement
- ◆ Generally the joint width-to-depth ratio is 2:1 for joint width ≥ 12 mm, or 1:1 for joint width < 12 mm
- ◆ Joint width: minimum = 6 mm, maximum = 35 mm *
- ◆ Joint depth: minimum = 6 mm, maximum = 12 mm

* Sealing joints with larger joint width is possible but sealant may sag in vertical applications.

Caution

Toxic to aquatic life with long lasting effect. Avoid release to the environment. Collect spillage. Keep out of reach of children. Contains aminosilane. May produce an allergic reaction. Safety data sheet available on request.

Disclaimer

Every endeavour has been made to ensure that the information given herein is true and reliable but it is given only for the guidance of our customers. The company cannot accept any responsibility for the loss or damage that may result from the use of the information, due to the possibility of variations of processing or working conditions and of workmanship outside our control. Users are advised to confirm suitability of this product by their own tests.