

Technical Data Sheet

AS-4052 High Performance Hybrid Sealant



Physical Properties

Appearance:
Soft paste

Colour:
White, grey, black

Tack-free / Skin-form time:
4 – 15 minutes
(at 25 °C & 50% R.H.)

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

Packaging:

Content	Quantity/ carton
290 mL cartridges	20

Description

ALSEAL High Performance Hybrid Sealant is a high modulus sealant based on advanced MS Polymer technology. It is a single-component elastomeric sealant with superior weathering, UV, and temperature resistance. It is solvent-less and isocyanate-free; ensuring that the cured sealant will not shrink or have bubbling issues. It is also free of silicone oil, minimising building aesthetic issues caused by oil-staining and dirt-streaking problems often associated with silicone sealants.

Features

- ◆ High modulus
- ◆ High strength structural bonding
- ◆ Good UV resistance
- ◆ Paintable
- ◆ No Isocyanate – No air bubbling
- ◆ No solvent– No shrinkage
- ◆ Primerless bonding to most substrates

Applications

Suitable for high strength sealing and bonding in construction, automotive, and industrial applications. It is specially formulated for structural joint that will be subjected to dynamic stresses. Ideal for bonding of plastics (nylon, PVC, ABS, polycarbonate, etc.), metals (stainless steel, aluminum, steel, copper, etc.), rubber (natural rubber, synthetic rubber, EPDM, etc.), natural materials (wood, plywood, leather, cloths, paperboard, etc.) and inorganic substrates (concrete, mortar, natural stone, tile, glass, porcelain, etc.)

Technical Data

Curing system	: Moisture curing
Density	: 1.44 g/mL
Tensile at break (ASTM D412)	: 1.9 N/mm ²
(ISO 8339)	: 0.70 N/mm ² (7.6 kgf/cm ²)
Elongation (ASTM D412)	: 190 %
Shore A hardness (ASTM C661)	: 56
Lap shear strength (ASTM C719)	: 2.0 N/mm ²
VOC content (USEPA Method 24)	: Yes; 24.22 g/L

Usage Instructions

1. Surfaces must be clean, dry and free of dirt, grease, oil or water.
2. Surfaces should be cleaned with alcohol, M.E.K. or other suitable solvent. Do not use soap or detergent.
3. For a neat finishing, apply masking tape and remove it before sealant skins over.
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.

Clean Up

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

Caution



**AS-4052
High
Performance
Hybrid Sealant**

May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects. Avoid release to the environment. Wear protective gloves and eye protection. IF ON SKIN: Wash with soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If skin irritation or a rash occurs: Get medical advice/attention. If eye irritation persists get medical advice/attention. 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.