

AlinO Seal (Hybrid Sealant)

Technical Datasheet



AlinO Hybrid Sealant is a UV resistant, low modulus hybrid polymer with a comparable cure time of silicone. It cures to form a flexible, durable solid perfectly suited for low traffic joints. This is a high movement product capable of +/- 35% joint movement. AlinO Hybrid Sealant is an extremely environment friendly product which is designed to be used as a premium quality, high performance sealant. It exhibits outstanding adhesion and stability properties.

Features & Applications :

Features:

- Class 35 Sealant
- Specialty hybrid formulation for use with high performance applications
- UV Stable
- Low VOC
- Non-corrosive
- Compatible with EPS and XPS foam without damage
- Paintable
- Excellent exterior weathering resistance
- Resistant to mold and mildew when fully cured
- Resistant to solvents, mineral oils, acids, and alkalis when cured

Basic uses include caulking and sealing around:

1. Interior and exterior joining and sealing
2. Perimeter sealing of openings and joints
3. EIFS, Aluminium, masonry, and vinyl siding
4. Low traffic expansion joint sealing

How to apply :

Before Use: Read the label in its entirety.

Surface Preparation:

- Surfaces must be structurally sound, clean, dry, and free from oil, grease, water, dirt, or any other material and membranes that may deter adhesion.
- Sealant thickness will increase at low temperatures.
- Rinse all surfaces [excluding plastics] with acetone.
- Rubber surfaces should be roughened with sandpaper, then wiped with acetone.
- Should your gap exceed 6 mm (~1/4"), use a backer rod prior to applying sealant.

Application:

1. Cut nozzle to desired bead size and cut inner seal.
2. Using a caulking gun, dispense a bead of sealant to the prepared surfaces in a uniform thickness. 635 HybridSP is supplied ready-to-use.
3. Smooth and tool bead immediately following installation.
4. Allow sealant time to cure in an unconfined area.

Cure:

- Cure time is affected by humidity, degree of confinement, and cross-sectional thickness of the sealant.
- Sections up to 3.2 mm (1/8") thick become rubbery solids in 24 hours at 25°C (77°F) at 50% relative humidity.
- In applications where AlinO Seal may be partially or totally confined during cure, the time required for proper cure is generally lengthened by the degree of confinement. Every application involving confinement should be thoroughly tested before production procures.
- Curing time increases with the thickness of the sealant. A 12.7 mm (1/2") cross section for example, may require 7 days for complete cure. However, the cure will have penetrated the outer 3.2 mm (1/8") in about 24 hours.

Clean-up:

1. Uncure sealant cannot be removed with water.
2. Remove the bulk of the uncured sealant with a plastic scraper, being careful not to compress it into cracks or crevices.
3. Use a cloth saturated with mineral spirits, acetone, or denatured alcohol to wipe away any remaining sealant.
4. Clean surface with soap and water if possible.

Bonds To:

- Waterproof membranes & shower systems
- Cementitious board & panels
- Wood (including treated wood)
- Glass
- Metals
- Plastics, including PVC
- Vinyl* *Test for suitability prior to full production*
- EPS and XPS foam
- Most roofing substrates
- Stone, Tile, Concrete, Brick, and other mineral based substrates
- Mirror backings* *Test for suitability prior to full production*

Other uses include:

1. Bonding and joint sealing in automotive and OEM
2. Bonding and sealing where UV stability is required
3. Sanitary applications
4. Expansion and control joints

