

Aluseal Hybrid

Product description

Aluseal Hybrid is a high-quality, elastic, watertight, one-component sealant that seals and protects the cut edges of aluminium profiles against corrosion. Aluseal Hybrid has been developed for the durable sealing of mitre and butt joints in aluminium constructions (e.g. extruded window profiles). Aluseal Hybrid is based on hybrid polymers and is label-free.

Properties

- Protects against corrosion
- Good UV resistance
- Waterproof
- Good weather resistance
- Long open time
- Stays elastic after curing and very durable
- Easy to apply
- Easy to tool
- Thixotropic, does not run off
- Compatible with the Soudal corner bonding adhesives
- Can be painted with most types of paint systems
- Free of solvents and isocyanate
- Very low emission, EC1+ certified



Applications

- Protection against corrosion of cut edges in (blank) aluminium profiles.
- Durable sealing of mitre and butt joints in aluminium constructions (e.g. extruded window profiles).

Technical data

Base	Hybrid Polymer	
Consistency	Paste	
Curing system	Moisture curing	
Skin formation	23±2°C - 50%±5% R. H.	ca. 120 min
Drying time	23±2°C - 50%±5% R. H.	2 mm / 24 h
Density	ca. 1.53 g/ml	
Elasticity modulus	ISO 37	ca. 1.00 N/mm ²
Elongation at break	ISO 37	≥ 350 %
Maximum tension	ISO 37	≥ 1.50 N/mm ²
Fire reaction class	EN 13501-1	E (normal flammability)
Hardness	ca. 44 shore A	
Application temperature	+5°C → +30°C	



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Temperature resistance

-40°C → +90°C

Footnote: evaporation time, open time and curing speed may vary depending on environmental factors such as temperature, moisture, and type of substrates.

Substrates

- Substrate condition
The surface must be rigid, clean, dry, free of dust and grease.
- Substrate preparation
No pretreatment required. A preliminary adhesion test on every substrate is recommended.
- Substrate types
Aluseal Hybrid has a good adhesion to following substrates: extruded aluminium (window) profiles.

Application method

- Application method
Apply the product with a manual, pneumatic or accu caulking gun. With a foam roller. It is strongly recommended that Aluseal Hybrid is brought to room temperature before use, otherwise its processing properties may be adversely affected. Apply Aluseal Hybrid to the blank cut edges of the aluminium profiles. The profiles must be fitted together and then screwed or pressed into place within the skin formation time. The functional strength is only achieved after the full curing time. Remove excess product when still fresh.
- Cleaning method
Clean with Soudal Surface Cleaner or with Soudal Swipex Wipes, immediately after use.
- Repair method
Repair with the same material.

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult the packaging label and safety data sheet for more information.

Packaging/Logistics

Colour: Grey, Black, White

Packaging: 290 ml cartridge

Shelf life: 12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C

Standards and certificates

- EC1 Plus label: very low emission

Environmental clauses

- Leed regulation: Aluseal Hybrid conforms to the requirements of LEED. Low –Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168. Complies with USGBC LEED 2009 Credit 4.1: Low-Emitting Materials – Adhesives & Sealants concerning the VOC-content.

Remarks

- Aluseal Hybrid should not be diluted.
- Aluseal Hybrid may be overpainted, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.
- The drying time of alkyd resin based paints may increase.

This technical data sheet replaces all previous versions. The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. It is general in nature and does not constitute any liability. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. Since the design, the quality of the substrate and processing conditions are beyond our control, no liability under this publication is accepted. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application. In every case it is recommended to carry out preliminary experiments. The manufacturer reserves the right to modify products without prior notice.