



Alusil

Description

Alusil is a one-component, paintable, plasto-elastic sealant based upon acrylic dispersion. Alusil is suitable for sealing applications of all kinds of door and window and window joints, including but not limited connection joints for aluminum, uPVC & wood.

Properties

- Easy to apply
- For window & door professionals (aluminium, steel & wood)
- Suitable for Indian weather conditions
- Crack-free
- Can be painted with water-based systems
- Very good adhesion on many porous surfaces and aluminum

Applications

Specially developed for sealing low-movement connection joints in the building and construction sector including aluminum, steel, and wooden window frames.



Technical data

Base	Acrylic Dispersion
Consistency	Paste
Curing system	Physical Drying
Specific Gravity (g/ml)	1.67 ± 0.05
Skin formation (minutes)	~ 20
Shrinkage (%)	DIN 52451 ~ 15
Maximum allowed Distortion (%)	12
Temperature Resistance (°C)	-20 to +80
Application Temperature (°C)	+5 to +30

Footnote: Skinning 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
Highly porous surfaces should be primed with diluted Alusil (1 part Alusil and 2 parts water).
- Substrate types
Alusil has a good adhesion to all common porous building substrates.
Alusil has no good adhesion or is not suitable for PE, PP, PTFE (Teflon®), bituminous substrates, copper or copper containing materials such as bronze and brass.

We recommend a preliminary adhesion test on every surface.



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Application method

- Application method
Apply the product with a manual, pneumatic or a battery-operated caulking gun.
- Cleaning method
Before curing, Alusil can be removed with water from substrates and tools. Cured sealant must be removed mechanically.
- Finishing method
Finish with a spatula or putty knife.
- Repair method
Repair with the same material.

Joint Size

Minimum Width: 5 mm
Maximum Width: 20 mm
Minimum Depth: 5 mm
Recommendation for sealing jobs: Joint Depth = Joint Width

Use PE backer rods in case of large joint dimensions to avoid three-point adhesion.

Health and Safety Recommendations

Take the usual labour hygiene into account. Consult the packaging label and safety data sheet for more information.
Keep the area well-ventilated during use and curing of the product.
Dangerous. Respect the precautions for use.

Packaging/Logistics

Colour: White, Black
Packaging: 425g Cartridge
Shelf life: 12 months from the date of production. The product must be stored in its original, undamaged, and sealed packaging under dry conditions, protected from direct sunlight, and at temperatures between +5°C and +25°C.

Remarks

- Do not use in applications where continuous water immersion is possible.
- Paintable with most paints, however given the great diversity in available paints, it is recommended to do a compatibility test prior to the application.
- Do not apply when rain or frost is imminent.
- The paint should be sufficiently elastic to be applied on a plasto-elastic sealant. A preliminary test is recommended to prevent cracking.
- With the expanding range of coatings used in the fenestration industry, sealant compatibility with specific coating systems must be verified; therefore, a preliminary adhesion test is recommended prior to application.

This technical data sheet supersedes all earlier versions. The information provided is based on our tests and practical experience and is supplied in good faith as general guidance only, without creating any liability. Since materials, substrates, application design, and processing conditions vary widely and are outside our control, we cannot accept responsibility for the results obtained from use of this information. The user must verify suitability for the intended application through their own testing, and preliminary trials are recommended in all cases. The manufacturer reserves the right to change product specifications without prior notice.