



1-C-MS-Anti-Corrosion Sealant

Examples for Application

- Corrosion protection of blank aluminium sections
- Sealing, e.g. of mitres, butt joints in aluminium construction
- Used for bonding and sealing in diverse industrial fields

Special Properties

- Very low emission*
- Easily applicable, for instance, with foamed roll or spreader
- elastic adhesive joint
- Thixotropic, does not drip off
- Solvent-free
- Not foaming
- Joint filling
- Low shrinkage
- Does not impact the curing behaviour of other adhesives which are processed in parallel
- Compensates the expansion of different materials
- Good weather resistance outdoors
- Good UV-stability
- Can be over-coated with many paint systems
- Can subsequently be powder-coated (annealing temperatures $\leq +180\text{ °C}$)

Certificates / Test reports

ILAK, Institut für Lackprüfung

Salt spray test as per DIN EN ISO 9227

Test report No.: 9-5-18/1

GEV

*Classified in the EMICODE class EC1^{PLUS} in compliance with the criteria of the GEV.

Licence No.: 7872



French VOC-Emission class A+

Technical Data

Basis	1-C-humidity-cross-linking silane-terminated polymer
Colour hard-dry	grey
Density as per EN 542 at +20 °C	approx. 1.44 g/cm ³
Shore hardness as per DIN 53505	approx. 30 Shore A
Viscosity as per plate-plate (2 s ⁻¹) at +25 °C	approx. 230 000 mPa.s
Breaking elongation as per DIN 53504	approx. 500 %
Skinning time – dry at +20 °C, 50 % r. H., applied quantity 500 µm-PE/PVC	approx. 15 min**
Watertightness after dynamic load (SS 818141) and after alternating climatic storage	water column 140 mm





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Curing speed at +20 °C, 50 % r. H.	approx. 4 mm in 24 h
Curing time at +20 °C, 50 % r. H. until it reaches the final strength	approx. 7 d
Operation temperature range	-40 °C to +100 °C, temporary (powder coating) to +180 °C
Processing temperatures adhesive and substrates	from +5 °C to +30 °C
Tensile shear strength as per DIN EN 1465, Alu/Alu, 0.2 mm joint at +20 °C	ca. 2.0 N/mm ²

**After production, while it is stored, skinning time changes from approx. 15 min to approx. 30 min.

General Information

With increased air humidity or after the bonding compound has been sprayed with water, the skinning time will be clearly shorter.

Skinning, joining times, as well as the required press and following processing times can only be determined accurately by self-tests because they depend on material, temperature, applied quantity, air humidity, material humidity, thickness of adhesive film, press power, and other criterions. For processing, appropriate safety allowances shall be planned in addition to the specified guiding values.

Preparation

Acclimatise the product before the application.

The surfaces of the workpieces to be bonded must be dry, and free from dust and grease.

Bonding

Apply the mass on both sides on the blank cut faces of the aluminium sections.

The workpieces must be fit together and pressed within the skinning time.

After they have been fit together, the parts must be fixed and pressed until functional strength has been reached.

Remove leaked out material when it is fresh.

Important instructions

Only instructed personnel in specialist firms are allowed to use the product!

Our user instructions, processing guidelines, product- and performance data, and other technical statements are only general directives; they describe only the condition of our products (values, determination of values on the date of completion) and the performances do not represent a warranty in the sense of § 443 BGB. **Because of the wide variety of applications of the individual product and the relevant special conditions (e. g. processing parameters, material characteristics, etc.), it is up to the user to test it itself;** our free expert advice for application provided in speech, writing, and as test is nonbinding.

Please, also consider the Safety Data Sheet!

Cleaning

Remove the fresh, not cured material from the surfaces and the tools using COSMO® CL-300.150.

Cured material can only be removed mechanically.

Storage

Store the hermetically closed original trading units in a dry place at temperatures of +15 °C to +25 °C no direct sun radiation.

While transported within the usual transport times, the product may be exposed to temperatures of -30 °C to +35 °C.

Storage life in unopened original packaging: 12 Months

During the storage time, viscosity is increasing.



Industrieverband
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COSMO® HD-100.411

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Packaging

Alu-PE film tube bag with recloseable tip, net weight: 150 g

310 ml PE-Euro cartridge, net weight: 440 g

Other trading units on request.



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