



# COSMO HD-100.411

## 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 drop 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  $\leq +180\text{ }^{\circ}\text{C}$  ( $\leq +356\text{ }^{\circ}\text{F}$ ))

### 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<sup>PLUS</sup> in compliance with the criterions of the GEV.

Licence No.: 7872



French VOC-Emission class A+

### Technical Data

<b>Basis</b>	1-C-humidity-cross-linking silane-terminated polymer
<b>Colour</b> hard-dry	grey
<b>Density</b> as per EN 542 at +20 °C (+68 °F)	approx. 1.44 g/cm <sup>3</sup> (12.02 lb/gal)
<b>Shore hardness</b> as per DIN 53505	approx. 30 Shore A
<b>Viscosity</b> as per plate-plate (2 s <sup>-1</sup> ) at +25 °C (+77 °F)	approx. 230 000 mPa.s (230 000 cP)
<b>Breaking elongation</b> as per DIN 53504	approx. 500 %
<b>Skinning time – dry</b> at +20 °C (+68 °F), 50 % r. H., Applied quantity 500 µm-PE/ PVC	approx. 15 min**



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## 1-C-MS-Anti-Corrosion Sealant

<b>Watertightness</b> after dynamic load (SS 818141) and after alternating climatic storage	Water column 140 mm (5.51 mil)
<b>Curing speed</b> at +20 °C (+68 °F) , 50 % r. H.	approx. 4 mm (158 mil) in 24h
<b>Curing time</b> at +20 °C (+68 °F), 50 % r. H. until it reaches the final strength	approx. 7 d
<b>Operation temperature range</b>	-40°C (-40 °F) to +100°C (+212 °F), temporary (powder coating) to +180 °C (+356 °F)
<b>Processing temperatures</b> adhesive and substrates	from +5°C (+41 °F) to +30 °C (+86 °F)
<b>Tensile shear strength</b> as per DIN EN 1465, Alu/Alu, 0.2 mm (7.9 mil) joint at +20 °C (+68 °F)	approx. 2.0 N/mm <sup>2</sup> (261 psi)

\*\*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!

KEEP OUT OF REACH OF CHILDREN !

KEEP HOBBOCK, DRUM, CONTAINER, e.g. TIGHTLY CLOSED !

USE ONLY FOR APPLICATIONS MENTIONED IN THE TECHNICAL DATA SHEET !

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*Please, also consider the Safety Data Sheet!*





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## 1-C-MS-Anti-Corrosion Sealant

### 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 (+59 °F) to +25 °C (+77 °F) no direct sun radiation.

While transported within the usual transport times, the product may not be exposed to temperatures of -30 °C (-22 °F) to +35 °C (+95 °F).

Storage life in unopened original packagings: 12 Months

During the storage time, viscosity is increasing.

### Packaging

Alu-PE film tube bag with recloseable tip, net weight: 150 g (5.3 oz)

310 ml (10.48 fl oz) PE-Euro cartridge, net weight: 440 g (15.5 oz)

Other trading units on request.



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