

FILIDUR® ST C420

Filiform corrosion protection

Product Description

FILIDUR® ST C420 is an innovative primer, with a special combination of active metal organic corrosion protection pigments to protect aluminium substrates from filiform corrosion. FILIDUR® ST C420 can be used for effective renovation and protection of filiform corroded substrates.

FILIDUR® ST C420 successfully passed tests by the IFO Institut für Oberflächentechnik GmbH (Institute for Surface Technology) according to DIN EN ISO 4623-2 (test report I 9 A 563).

Areas of Application

To renovate aluminium constructions such as façade panels, profiles, windowsills, etc. which need lasting protection from filiform corrosion. Particularly suitable in atmospheres with chloride such as coastal areas, offshore islands, swimming pools or objects directly exposed to gritting salt.

For first-time use, apply to chromated aluminium only.

Application and Thinning

Conventional and airless spraying, brush and roller.

Do not apply at temperatures below + 10 °C. Surface temperature must be at least 3 °C above dew point to prevent moisture condensation during application.

The maximum dry coat strength of FILIDUR® ST C420 should not exceed 100 µm, particularly if additional coats are being applied.

Layering:

Primer: FILIDUR® ST C420
 Intermediate coat: FILIDUR® C430
 Top coat: VERNIDUR® FP, 2C Fluoropolymer finish or VERNIDUR® AC, 2C-PUR finish

Can be recoated with FILIDUR® C430 after 24 hours at 20 °C.

Application Method	Thinning	Nozzle
Conventional Spraying	with 10 – 15 % V2 to 35 - 40 Sec. DIN 4	1.8 - 2.0 mm
Airless Spraying	ca. 5 % V2 to 50 - 70 Sec. DIN 4	narrow 218 medium 418 wide 618
Brush and Roller	with 0 - 5 % V2	

Special Notes

The information contained in this technical data sheet is based on general technical standards and is intended for specialists. Any changes in the recommended operating procedures or specified environmental conditions can have a significant impact on results. Our guarantee covers only the quality of the material supplied. We do not accept any responsibility for the application. In case of doubt, we recommend contacting our Technical Service. Our products are under constant development. Therefore please note date of issue of our technical data sheet and ask for the latest edition.

Safety Measures

FILIDUR® ST C420 contains solvents and is combustible, and must therefore be protected from heat and kept away from naked flames. Ensure that ventilation is adequate and do not inhale vapours. All regulations regarding work hygiene and operational measures must be observed.

Technical Data

Binder	2-component epoxy resin
Pigmentation	Metal organic corrosion protection pigments
Finish	Matt
Colour	Brown (approx. RAL 8025)
Substrate	Filiform corroded aluminium should be blast cleaned. If this is not possible, then substrate should be thoroughly sanded by metallic means. Remove all dust from surface. To avoid further contamination, paint should be applied as soon as possible after sanding. Substrate must be dry, and free of grease and dust.
Thinner	V2 Use of other thinners can lead to defects and loss of quality.
Packaging	Pigment: 15 kg disposable container Hardener: 0.75 kg disposable container
Storage	Pigment and hardener 6 months in original, unopened containers stored at 20 °C.
Waste disposal	Residues and expired material must be taken to the toxic waste disposal unit, VeVa-code 08 01 11.

Components	2
Hardener	H420
Mixing ratio	20 : 1
Potlife	approx. 12 hours at 20 °C
Drying (23 °C)	Dust-free approx. 10 min. Dry to touch approx. 1 hour Thoroughly dry approx. 20 hours Drying times depend on film thickness, and substrate and air temperatures.
Minimum film thickness	60 µm
Recommended dry film thickness	60 – 80 µm

Solids content by wgt.	approx. 85 %
By volume	approx. 65 % } Mixture
Density (20 °C)	approx. 2.5 kg/l
Theoretical consumption	ca. 250 g/m ² @ 60 µm

	FILIDUR® ST C420	Hardener H420	Thinner V2
Flash point	24 °C	25 °C	- 4 °C
UN No.	-	-	1263
Danger class RID/ADR	Not applic.	Not applic.	3 II
VOC content	15,6 %	55 %	100 %