

## SCHEDA TECNICA

### VERLOCK ALUMINIUM

**COD. 30480010 Aluminium**

#### Description

Verlock AL is a surface tolerant maintenance coating which can be applied to mechanically cleaned surface

#### Use and principal characteristic

- Give performance superior to conventional coatings when applied over mechanically surfaces.
- Contains special ingredients which wet surfaces and penetrate any traces of existing rust.
- Heat resistance 100°C continuous and 120°C discontinuous services in dry surroundings
- Be applied over most existing coatings and can be topcoated with a wide range of topcoats. It can be applied by brush, roller conventional and airless spray equipment.
- Compatible with prepared damp surfaces
- Suggested in those areas where blasting is impractical. Uses include steel structures in industrial facilities, bridges, tanks, marine weathering, oil tanks, piping roofs, water towers and other exposures subjects to high humidity and moisture. For immersion in potable and seawater, abrasive blasting to Sa 2.5 is required.

#### Resistance to

	Fumes	Splash and spillage
Acids sol.	Good	Good
Alkalis sol.	Very Good	Good
Solvents	Good	Good
Salt		Excellent
Water		Excellent
Gasoline		Excellent

#### Flexibility

Good

#### Weathering

Good (chalks)

#### Abrasion resistance

Very good

#### Weathering

Excellent

#### Top coat required scheme or for added chemical resistance.

Verlock AL can be topcoated with a wide range of topcoats for a finish colour

#### Basic data at 20°

##### Colour and gloss

Aluminium - semigloss

##### Viscosity

Thixotropic product

##### Mass density

1,25 g/cm<sup>3</sup> (mixed product)

##### Solids content by volume

84%

##### Recommended dry film thickness

125 microns/per coat

##### Number of coats

1-2

##### Full cured

One week at 20° C- see additional data

<b>Coverage theoretical</b>	6,7 m2/l at 125 microns dry film thickness	
<b>Curing at 125 microns dft</b>		
<b>Set - to - touch</b>	4 hours	
<b>Read for handling</b>	18 hours	
<b>Ready for overcoating</b>	Min 10 hours - Max 3 months (1 month for poliurethane)	
<b>Full cured</b>	7 days with good ventilation	
<b>Note</b>	<p>Drying and curing times are dependent on air and steel temperature, applied film thickness, ventilation and other environmental conditions: Times are proportionally shorter at higher temperature and longer at lower temperatures.</p> <p>Prior to recoating/topcoating ensure the surface is clean. Maximum recoating/topcoating time intervals are dependent on temperature, degree of weathering, type of topcoat, and service conditions of the complete coating system.</p>	
<b>Shelf life</b>	24 months if protected against weathering and at a max. temperature of 40°C	
<b>Mixing ratio (by weight)</b>	Resin	1 part
	Cure	1 part
<b>Flash point (DIN 53213)</b>	Resin	28° C
	Cure	23° C
	Thinner	25° C
<b>Surface preparation and application condition</b>	<p>All surfaces to be coated must be clean, dry and free of rust, oils, dust, dirt, old paint, and other contaminants.</p> <p>Coating performance in general, is proportional to the degree of surface preparation. Abrasive blasting is usually the most effective and economical method: For circumstances where this is impossible or impractical, Verlock Al has been developed. It can be applied over mechanically cleaned surfaces.</p> <p>Verlock AL may be used over most types of properly prepared and tightly adhering coatings, however a test batch is recommended for use over existing coatings. Remove all loose rust, dirt, and grease or other contaminants from surface. Power tool clean in accordance with St 3 or SSPC-SP3 or hand tool cleans in accordance with ST 2 or SSPC-SP 2. Water blasting is also acceptable. If possible, abrasive blasting is preferred. Verlock Al can be applied over damp substrates. For immersion in potable and seawater abrasive blasting is required. Blast clean to Sa 2.5 or SSPC-SP-10</p>	
<b>Material preparation</b>	<p>Product is supplied in pre measured standard pails so that the right ratio is reached by mixing one pail of base product with one pail of hardener. If smaller quantities are required, the ratio by weight is:</p>	
	Base product	100 p.
	Cure	100 p.
	<p>Flush equipment with recommended cleaner before use. Stir each of the components prior to mixing to an even consistency with a power mixer. Add cure to resin, and continue stirring for 10 minutes</p>	
<b>Induction time</b>	None	
<b>Pot life at 20°</b>	<p>After mixture, product must be used within 4 hours. Afterwards it becomes thick and cannot be used any more hours and less at higher temperatures. Pot-life ends when coating loses body and begins to sag.</p>	
<b>Environmental Conditions</b>	During application and drying:	
	Air temperature	5 to 50° C
	Surface temperature	5 to 60° C
<b>Airless spray</b>	Compression ratio	45:1
	Nozzle orifice	approx.0,48 mm (0,019 inch) or larger
	Nozzle pressure	240-300 atm
<b>Brush/Roller</b>	<p>Use clean, short bristled brush or medium nap roller. Brush or roller application may result in a duller or less uniform aluminium colour. Application by brush or roller will require at least 2 coats to achieve the specified 125 microns dry film thickness.</p>	

**Cleaning Solvent**

cod. 25100200

**SAFETY PRECAUTIONS****WARNING**

VAPOUR HARMFUL, MAY CAUSE IRRITATION.

COMBUSTIBLE. CONTAINS ORGANIC SOLVENTS.

Avoid contact with eyes, skin and clothing. Avoid breathing vapour. Wash thoroughly after handling. Use with adequate ventilation. Wear an air supplied mask to avoid breathing concentrated vapours in enclosed areas. Close container after use.

Keep away from heat, sparks, and open flame.

In case of eye contact, immediately flush with plenty of water for at least 15 minutes.