SCHEDA TECNICA

VERLOCK	SERIE 30480000
	o High Solids Epoxy Coating

Description	Verlock is a surface tolerant maintenance coating, which can be applied to mechanically cleaned surfaces.
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 120C discontinuous ervices in dry surroundings. • Can be applied over most existing coatings and can be topocoated with a wide range of topcoats. It can be applied by brush, roller conventional and airless spray equipment • Compatible with prepared damp surfaces • uggested 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.
Not recommended for	Verlock is not currently recommended for immersion service.

Resistance to

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

Flexibility	Good
Abrasion resistance	Very Good
Weathering	Good (chalks)
Top coat required	Verlock s. 30480000 can be topcoated with a wide range of topcoats for a finish colour scheme or for added chemical resistance.

Basic data at 20°

Colour and gloss	Colour RAL - semigloss

Mass density	1,430 g/l (mixed product)
Solids content by volume	80%
VOC	188 g/l
Recommended dry film thickness	125 µm /per coat
Number of coats	1-2
Coverage theoretical	6,4 m2/l at 125 mm. The practical coverage will be less, depending on application technique, job conditions and type of surface to be coated.
Application methods	airless or conventional spray, brush or roller
	Curing at 125 microns dft
Set to touch	6 hours
Read for handling	9 hours
Ready for overcoating	10 hours
Full cured	7 days with good ventilation
Note	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: 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.
Shelf life	Base: al least 24 months when stored cool and dry Hardener: al least 24 months when stored cool and dry

Mixing ratio (by weight)

Resin	1 part
Cure	1 part

Flash point (DIN 53213)

Resin	38° C
Cure	29° C
Thinner	30° C

Surface preparation and application condition	All surfaces to be coated must be clean, dry and free of rust, oils, dust, dirt, old paint, and other contaminants. 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 in impossible or impractical, Verlock has been developed. It can be applied over mechanically cleaned surfaces. Verlock may be use over most types of properly cleaned, tightly adhering coatings. In case existing coating system is unknown or based on conventional binders a test patch is recommended 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 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.

Concrete

Surfaces must be cured, clean, dry and free of non adherent coatings and disintegrated or chalky materials.

Material preparation

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:

Base product	100 p.
Hardener	100 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

Induction time

None

Pot life at 20°

After mixture, product must be used within 3 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.

Environment condition

During application and drying:
- Air temperature: 5 to 50°C
- Surface temperature: 5 to 60°C

To prevent moisture condensation during application, surface temperature must be at least 3°C above dew point.

Airless spray

Compression ratio	45:1
Nozzle orifice	approx.0,48 mm (0,019 inch) or larger
Nozzle pressure	15 Mpa (approx. 150 atm.-2100 p.s.i.)

Brush/Roller

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 al least 2 coats to achieve the specified 125 microns dry film thickness.

Cleaning Solvent

cod. 25100200

SAFETY PRECAUTIONS

WARNING

This product is flammable: Keep away from heat and open flame: Keep container closed: Use adequate ventilation: Avoid prolonged and repeated contact with skin. If used in confined areas. Observe the following precautions to prevent hazards of fire or explosion or damage to the health:

1. circulate adequate fresh air continuously during application and drying
2. use fresh air mask and explosion proof equipment;
3. prohibit all flames, sparks, welding and smoking

Do not empty into drains. Take precautionary measures against static discharges: For specific information on hazardous ingredients, require ventilation, possible consequences of contact, exposure and safety measures see Safety Data Sheet