

## SCHEMA TECNICA

**VERNIFEN**

**COD. 35630806**

Surface Tolerant Epoxy

<b>Description</b>	Two components, amine – cured phenolic epoxy (novolac) coating with very good adhesion and high temperature, and excellent resistance to crude oil up to 100°C		
<b>Resistance to</b>	<b>Exposure</b>	<b>Immersion</b>	<b>Fumes</b>
	Acids, Dilute	Good	Very Good
	Alkalies, Dilute	Very Good	Very Good
	Salts	Excellent	Excellent
	Water	Excellent	Excellent
<b>Flexibility</b>	Fair		
<b>Weathering</b>	Very good (chalks)		
<b>Adesion resistance</b>	Excellent		
<b>Abrasion resistance</b>	Excellent		
<b>Basic data at 20°</b>			
<b>Colour and gloss</b>	Light grey, green, gloss		
<b>Mass density</b>	approx. 1,6 kg/l		
<b>Substrate</b>	Abrasive blasted steel , concrete surfaces		
<b>Number of components</b>	2		
<b>Solids content by volume</b>	approx. 67 %		
<b>Curing mechanism</b>	chemical reaction between components		
<b>Number of coats</b>	2 + 2 stripe coats		
<b>VOC</b>	187 g/kg (Directive 1999/13/EC)		
<b>Calculated coverage</b>	4,18 m <sup>2</sup> /kg for 100 µm. The actual coverage will be less, depending on application technique, job conditions and type of surface to be coated		
<b>Recommended dry film thickness</b>	300 µm for two coats (6 mils per coat)		
<b>Drying times</b>			
<b>Surface-dry</b>	4 hours at 20°C		

<b>Through-dry</b>	8 hours at 20°C		
<b>Full Cured</b>	7 days at 20°C		
<b>Application method</b>	Airless spray; Brush (touch up)		
<b>Shelf life</b>	Base	at least 24 months when stored cool and dry	
	Hardener	at least 24 months when stored cool and dry	
<b>Temperature resistance</b>	Wet 90°C - 194 °F;                    Dry 200°C           -    392°F		
<b>Flash point (DIN 53213)</b>	Base	27°C/80°F	
	Hardener	100°C/212°F	
	Thinner	24°C/75°F	
<b>Surface preparation and application condition</b>	All surfaces to be coated must be clean, dry and free of rust, oils, dust, dirt, old paint, and other contaminants. Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. Abrasive blasting to near white metal Sa 2 ½ (ISO 8501-2007 or SSPC-SP10) with a surface profile corresponding to Rugotest No.3, BN10a, Keane-Tator Comparator 3.0 G/S, or ISO Comparator Medium		
<b>Rusted or pitted steel</b>	Blast at white metal Sa 3 (ISO 8501-2007 or SSPC-SP5) <i>Apply Vernifen as soon as possible to keep steel from rusting. Self-priming. May be applied over epoxies and phenolics as recommended. Do not leave blasted steel uncoated overnight. In case on contamination remove contaminants. Spot blast in needed</i>		
<b>Concrete Surfaces</b>	Remove grease, oil and other contaminants according to ASTM D4528. Abrade the surface per ASTM D4529 to remove all chalk and surface glaze or laitance. Do not coat concrete treated with hardening solutions unless test patch indicates satisfactory adhesion. Moisture content should not exceed 4%. Do not apply coating unless concrete has fully cured.		
<b>Application conditions</b>	Apply only on a dry and clean surface with a temperature above the dew point to avoid condensation. Use only where application and curing can proceed at temperatures above: 10°C/50°F. The temperature of paint itself should be 15°C/59°F or above. In-can temperature of the paint should preferable be below 25°C/77°F. Curing requires a relative humidity of: max 80% In confined spaces provide adequate ventilation curing application and dry		
<b>Note</b>	May used under insulation, pipes and like in one or two coat systems: Dry film thicknesses should not exceed 12 mils. At temperatures above 150°C/302°F, max 200°C/392°F. it is recommended to apply maximum: 2 x 100 micron/4 mils When exposed to high temperatures will discolour.		
<b>Environmental Conditions</b>	Base product VERNIFEN	35630806	100 p
	Hardener	35120188	20 p
	Thinner	25100200	
<b>Introduction time</b>	10 min. 20°C/68°F		
<b>Pot Life a 20° C</b>	After mixture, the product must be used within 2 hours. After that period the product becomes thick and cannot be used any more; during work, mixed product must be kept in the shade, away from sunlight		
<b>Airless spray</b>	Recommended thinner	thinner cod. 25100200; Keep thinning at absolute	

	minimum. Do not dilute the components separately - only the mixture
Nozzle orifice	approx. 0,48 - 0,53 mm (=0,019-0,021 inch)
Nozzle pressure	20 MPa (= approx. 200 at. - 2840 p.s.i. ) .
<i>The product must be applied by means of airless equipment with compression ratio 45:1 or 60:1</i>	

**Brush** for stripe coating and spot repair only

**Cleaner solvent** Thinner cod. 2510251002000200

**Overcoating table**

Surface temperature	10°C (50°F)	20°C(68°F)	30°C(86°F)
To recoat minimum	24 h	16 h	6 h
To recoat maximum	25 d	15 d	7 d

*\* surface should be cleaned from chalking and contamination. When coating intervals are longer, abrade the coated surface before recoating*

**Packaging**

Base	33630806	25 Kg
Hardener	30120188	5 Kg
Thimmer	25100200	25 - 5 l