IL FIORE DELLA PITTURA
vernital

SCHEDA TECNICA

VERNITEX	**COD. 35000338 Grey**
	Surface Tolerant Epoxy

Description	Two component polyamide epoxy primer pigmented with metallic lamellar micaceous iron oxide and aluminium. It can be applied to mechanically cleaned surfaces
Use and principal characteristic	• Excellent resistance when exposed to severe service conditions • General purpose as Surface Tolerant Epoxy coat in protective coating systems for steel, galvanized steel and concrete structures exposed to atmospheric land or marine conditions • Will cure even at temperature of 0°C; a high relative humidity max 95% during application and curing does not influence the quality of the coating • Designed for use with wet abrasive blasting and ultra high pressure blasting • Contains special ingredients which wet surfaces and penetrate any traces of existing rust • Tolerant for a damp steel surface • Can be applied over most existing old coatings, and can be topcoated with a wide range of epoxy and polyurethane coatings, after long weathering periods • Suggested for heavy marine and industrial environment, immersion in alkali and salt solutions, fresh and salt water • Heat resisting 100°C continuous
Resistence to:	
Adhesion , elcometer (ASTM D4541)	Mechanically cleaned steel > 8 MPa
Humidity (ASTM D2247)	None blistering after 2000 hours (film thickness 120 µm
Abrasion resistance	Excellent
Top coat required	May be top coated with Verepos s. 2540000 - Verepos A.S. s. 30420000 Verepos H.B. s. 30450000 - Verotar Coat SS n. 40410900 - Vinil Verepos 35620000 - Desmover s. 45450000 – 45470000
Physical data at 20°	
Colour and gloss	35000338 grey - Flat
Mass density mixed product	1,60 kg/l
Components	2
Curing Mechanism	Chemical reaction

Solids content by volume	85% +/- 2%
VOC	182 gr/lt
Recommended dry film thickness	minimum 75 - 125 microns (3-5 mils)
Number of coats	1-2
Application method	by airless or conventional spray, brush or roller (brush or roller may require additional coats)
Theoretical Coverage	6,8 m2/l at 125 microns d.f.t.
Practical Coverage	The practical coverage will be less, depending on application technique, job conditions and type of surface to be coated

Drying Times with Hardener 35120120

Temperature	Touch Dry	Hard Dry	Dry to recoat (minimum)	Dry to recoat (maximum)*
10°C	12 hours	24 hours	14 hours	None
20°C	4 hours	8 hours	6 hours	None
30°C	1 hour	4 hours	2 hours	None

Drying Times with Hardener 35120122

Temperature	Touch Dry	Hard Dry	Dry to recoat (minimum)	Dry to recoat (maximum)*
5°C	10 hours	18 hours	12 hours	None
10°C	6 hours	10 hours	8 hours	None
20°C	1 hour	4 hours	2 hours	None

Shelf life

Base: al least 24 months when stored cool and dry
Hardener: al least 24 months when stored cool and dry

Shipping weight

base A	35000338	25 kg
hardener B	35120120	2,500 kg
hardener B	35120122	3,750
thinner	25100200	25 - 5 l

Flash point (DIN 53213)

base A		27°C
hardener B	35120120	60°C
hardener B	35120122	(winter grade) 60°C
thinner	25100200	24°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, Vernitex has been developed. It can be applied over mechanically cleaned surfaces. Soluble salts should be removes by fresh water washing. Vernitex may be use over most types of properly cleaned, tightly adhering coatings. In case existing coating system is unknown or based on conventional binders, however a test patch is recommended for use over existing coatings. Remove all loose rust, dirt, and grease or other contaminants from surface. Power Tool Preparation in accordance with St 3 or SSPC-SP3 or Hand Tool Preparation in accordance with St2 or SSPC-SP2. Water blasting is also acceptable. If possible, abrasive blasting is preferred. Vernitex can be applied over damp substrates.

Steel surfaces

Steel should be blast cleaned to a minimum Sa 1, (ISO 8501-1:2007) C or D: grade rusting, or SSPC SP7 for best results in normal weather exposure.

Galvanized Steel

Very good degreasing

Existing coatings

Do not coat concrete treated with hardening solutions unless test patch indicates satisfactory adhesion. Surfaces must be cured, clean, dry and free of non adherent coatings and disintegrated or chalky materials

Application cConditions

This product with Hardener 35120122 (winter grade) is capable of curing at temperature below 0°C. During application and curing a substrate temperature down to -5°C is acceptable provided the substrate is free from water or ice. Substrate temperature should be at least 3°C above dew point

Air temperature	5 to 40°C
Surface temperature	5 to 40°C
Relative humidity	0—100%

Environmental Conditions

Vernitex with Hardener 35120120	**Vernitex with Hardener 35120122**
Air temperature: 10 to 40°C	Air temperature 0 to 40°C
Surface temperature: >5 to 40	Surface temperature: >0 to 40
Relative humidity not exceed 85%	Relative humidity not exceed 90%

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 product. Use power agitator: If smaller quantities are required, the ratio by weight is:

Base product	VERNITEX	100 p
Hardener	35120120	10 p
Or Winter Grade:		
Hardener	35120122	15 p
Thinner	25100200	

Temperature of the mixed base and hardener should be above 15°C, otherwise extra solvent may be required to obtain application viscosity. Too much solvent results in lower sag resistance and slower cure. Thinner should be added after mixing the components

Induction time at 20°C

Not required

Pot life at 20°C

2 hours with Hardener cod. 35120120;
30 minutes with Hardener cod. 35120122.
Pot life ends when coating loses body and begins to sag.

Airless spray

Compression ratio	45:1
Recommended thinner	thinner cod. 25100200; 5 - 10 %
Nozzle orifice	approx. 0,48 - 0,53 mm (=0,019-0,021 inch)
Nozzle pressure	15 MPa (= approx. 200 at. - 2100 p.s.i.)

Air spray

Recommended thinner	thinner cod. 25100200 ; 10 - 15%
Nozzle orifice	1,8 - 3 mm
Nozzle pressure	0,3 - 0,4 MPa (= approx. 3 - 4 at. 43 - 57 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 colour, but this will not affect the performance. Application by brush or roller will require at least 2 coats to achieve the specified 125 microns dry film thickness.

Recommended thinner	thinner cod. 25100200 at 5 - 10%. Use medium bristle brush
Cleaning solvent	Thinner cod. 25100200