

DATA SHEET

VEREPOS

SERIE 25400000

○ Polyamide Cured Epoxy Topcoat

Description

A two component polyamide cured epoxy topcoat.

Use and principal characteristic

- Epoxy finish in protective coating system for steel and concrete structures exposed to atmospheric land and marine conditions
- Full range of industrial colours
- Good adhesion on properly treated galvanised steel
- Good weather resistance including resistance against splash, spillage and fumes of acids, alkalies, water, salt solution and other corrosive chemicals
- As well as abrasion on structural steel, concrete and masonry, Verzinc and aluminium.
- Good adhesion on most aged sound alkyd, chlorinated rubber and epoxy coatings
- excellent durability and easy application, both by airless spray and brush

Not recommended for

Verepos s.25400000 is not currently recommended for immersion

Resistance to

Environment	Fumes	Splash and spillage
Acids sol.	Good	Fair
Alkalis sol.	Excellent	Excellent
Solvents	Excellent	Good
Salt neutral	Excellent	Excellent
Water	Excellent	Excellent
Gasoline	Excellent	Excellent

Flexibility

Good

Weathering

Good (chalks)

Abrasion resistance

Very good

Primer required

Verepos zinc n.70000310;
Verzinc 70000907;
Verepos primer 25000300-301-305-370;
Verepos intermediate 30000321 - 322;
Verepos A.S.
Fermiox 30000313 - 316 - 317;

	Vinilverepos 35000380 381; Verlock AL 30480010;		
Adhesion	Very good		
Flexibility	Good		
Abrasion resistance	Very good		
Basic data at 20°			
Colour and gloss	Ral - glossy		
Mass density	1,30 kg/l (mixed product)		
Solids content by volume	53%		
VOC	400 gr/l		
Recommended dry film thickness	50 (application at 100 mm wet film thickness will normally provide 50 µm dry film)		
Numbers of coat	1-2		
Coverage theoretical	10,6 m2/l at 50 µm. 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 50 microns dft			
Touch dry after	3 hours		
Read for handling	6 hours at 20°C; 4 hour at 30°C		
Ready for overcoating	min. 4 hours at 20°C; 3 hour at 30°C max. unlimited (surface must be in good condition, fee of corrosion products and contaminants)		
Full cured	4 days with good ventilation (see additional data)		
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:		
Shelf life	24 months if protected against weathering and at a max. temperature of 40°C		
Mixing ratio (by weight)	Resin	s. 25400000	100 part
	Cure	n. 25120102	30 part
Flash point (DIN 53213)	Resin	22°C	
	Cure	27° C	
	Thinner	25100200 28°C	

Surface preparation and application condition

Prepare surface in accordance with application instructions for the specific

Application Condition

Primer being used. Be sure primer is clean, dry and free of oil, grease and any other contaminants before applying Verepos s.2540000
- during application and curing a substrate temperature down to -10°C is acceptable provided the substrate is free from water or ice
- substrate temperature should be at least 3°C above dew point

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 cure. If smaller quantities are required, the ratio by weight is:

Base product	100 p.
--------------	--------

Cure	30 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 a few minutes. Stir during application to maintain uniformity of material.

Thinner should be added after mixing components.

Induction time

- 20 minutes if applied at temperatures below 10°C
- none above 10°C

Pot life at 20°

8 hours, and will be reduced at higher temperatures

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.

Minimum temperature for satisfactory cure is 10°C. Never apply coatings under adverse environmental conditions. Ensure good ventilation when applied in confined areas to assist evaporation of solvents.

Airless spray

Recommended thinner	cod. 25100200
---------------------	---------------

Volume of thinner	0-5%
-------------------	------

Nozzle orifice	approx. 0,32 - 0,45mm (0,013 - 0,018 inch)
----------------	--

Nozzle pressure	12 MPa (approx. 120 at.-1710 p.s.i.)
-----------------	--------------------------------------

Air spray

Recommended thinner	cod. 25100200
---------------------	---------------

Volume of thinner	5-10%
-------------------	-------

Nozzle orifice	2 mm.
----------------	-------

Nozzle pressure	0,3 MPa (approx. 3 at.-43 p.s.i.)
-----------------	-----------------------------------

Brush/Roller

Use clean, short bristled brush or medium nap roller.

Recommended thinner	25100200
---------------------	----------

Volume of thinner	0-5%
-------------------	------

Cleaning Solvent

cod. 25100200 (flash point 28°C)

All application equipment must be cleaned immediately after use, and the paint inside the spraying equipment must be removed before the pot life time has been expired

Additional Data

Drying Times

Substrate temperature	Dry to handle	Full cure
-5° C	24/48 hours	14 days
0° C	18/24 hours	10 days
5° C	18 hours	8 days
10° C	12 hours	6 days
15° C	8 hours	5 days
20° C	6 hours	4 days
30° C	4 hours	3 days
40° C	3 hours	2 days

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.