

SCHEDA TECNICA

VEREPOS AS

COD. 30420000

Description

Two component high solid coating based on polyamine or cycloaliphatic hardeners cured epoxy resins, particularly useful as a tank coating in a 2 coat system.

Use and principal characteristic

- Good low temperature cure
- Rapid development of water resistance
- Good application properties by airless spray, dry film thickness 250 µm being readily obtained in a single coat by cross coat technique, can be sprayed up to 400 µm dft before sagging occurs
- High gloss with good cleaning properties
- Meets the requirements of MIL-Std-1262 concerning resistance against aircraft fuel and fuel degradation

Resistance to

<u>Exposure</u>	<u>Immersion</u>	<u>Fumes</u>
Acids, Dilute	Good	Very Good
Alkalies, Dilute	Very Good	Very Good
Salts	Excellent	Excellent
Water	Excellent	Excellent

Flexibility

Good

Adhesion resistance

Excellent

Abrasion resistance

Excellent

Weathering

Very good (chalks)

Basic data at 20°

Colour and gloss

R.A.L. - Gloss

Mass density

approx. 1,5 kg/dm³

Solids content by volume

approx. 82% by volume

Recommended dry film thickness

180- 200 µm in one coat application

Coverage theoretical

2,6 m²/kg for 200 µm. The practical coverage will be less, depending on application technique, job conditions and type of surface to be coated

VOC

161 g/l

Set - to - touch	2 - 3 hours, at 20° C		
Full cured	5 days at 20° C- see additional data		
Overcoating interval	minimum :8 hours maximum : 15 days		
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	30420000	25 - 5 kgs
	Hardener	30120130 or 30120108	5 - 1 kgs
	Thinner	25100200	25 - 5 lt
Flash point (DIN 53213)	Base	26° C	
	Hardener	> 100° C	
	Thinner	24° C	
Surface preparation and application condition	Previous coat; dry and free from any contamination and sufficiently roughened if necessary		
	Steel Surfaces	Blast cleaning to nearly white metal at SP 10 grade of SSPC - Vis 1 or to ISO Sa 2 1/2, with surface roughness of 30 - 60 µm.	
	Concrete Surfaces	Do not coat concrete treated with hardening solutions unless test patch indicates satisfactory adhesion. Do not apply coating unless concrete has fully cured; carry out a slight sandblasting up to coherent surface	
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 binder . If smaller quantities are required, the ratio by weight is:		
	Base product	100 p.	
	Hardener	20 p.	
	Thinner should be added after mixing the components. The temperature of the mixed base and hardener should be above 15°C otherwise extra solvent may be required to obtain application viscosity. Very good mechanical mixing of base and hardener is essential in view of the viscous condition of the components.		
Induction time	Allow minimum induction time before use: 15°C - 30 min. 20°C - 15 min. 25°C - 10 min.		
Pot life at 20°	2 -3 hours ,with Hardener n. 30120130 and, 1 hour with Hardener n. 3010108; see additional data		
Airless spray	Recommended thinner	cod. 25100200;	
		up to 10% for one coat application of 200 µm dft	
	Nozzle orifice	approx. 0,53 mm (=0,021 inch)	
	Nozzle pressure	15 MPa (= approx. 150 at. - 2100 p.s.i.)	
Air spray	Recommended thinner	cod. 25100200	
		5 - 15%, depending on dft to be applied	
	Nozzle orifice	1.8 - 2, mm	

Nozzle pressure	0,3 - 0,4 MPa (= approx. 3 - 4 at. - 43 - 57 p.s.i.)
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Brush/Roller	- not recommended, only for spot repair and stripe coating - due to thixotropy it is difficult to obtain a smooth film by brush but this will not affect the performance.
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Cleaning Solvent	cod. 99100151
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Additional Data

Spreading rate	<u>Theoretical spreading rate</u>			
	grams per square metres	227	380	550
	square metres per kg.	4,4	2,6	1,8
	dry film thickness in µm	125	200	300
	max. dft without sagging with airless spray			400 µm
	min. dft for closed film with airless spray			80 µm
	max. dft when brushing			100 µm

Pot life (application viscosity)	15° C	3 hours	the figures are valid for quantities of approx. 6 kgs with Hardener n. 30120108
	20° C	1,5 hours	
	25° C	1 hour	
	30° C	45 min.	
	35° C	30 min.	
* surface should be cleaned from chalking and contamination			

Overcoating table for two pack epoxy - or polyurethane paint	Substrate temperature	5° C	10° C	20° C	30° C	40° C
	Minimum interval	32h	25h	8h	4h	3h
	Maximum interval	28 days	20 days	15 days	12 days	7 days
* surface should be cleaned from chalking and contamination						

Curing table	Substrate temperature	Full cure
	5° C	3 - 5 days
	10° C	7 - 14 days
	15° C	5 - 8 days
	20° C	3 - 5 days
* adequate ventilation is required during application and curing		
Use only where application and curing can be proceed at temperatures above 5°C/41°F. The temperature of the surface and that of the paint itself must also be above this limit. For lower temperatures the curing rate will be very low.		

Note	<p>The differences between hardeners are following:</p> <ul style="list-style-type: none"> • with Hardener n. 30120130 polyamine resin based, it is advisable for use in immersion service with aromatic and aliphatic hydrocarbon thinners and acid or alkaline solutions. This type of hardener is very yellowing type no use for decoration, only for chemical resistance. The temperature resistance is: for immersion service, 60°C; for exterior, 80°C. •• with hardener n. 30120108 cycloaliphatic resin based, can be used for food and drink service. This is no yellowing type (for use to room temperature), good flexibility and temperature resistance , until 100 – 120°C for dry and exterior service. For immersion and wet service the temperature must be 60°C max.
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<u>SAFETY PRECAUTIONS</u>	<p><u>WARNING</u></p> <p>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</p>
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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.