

DESCRIPTION AND USES

SYNGUARD EPS375XX is a high-solids epoxy primer with rapid development of hardness. The high solids content ensures effective filling of any type of substrate, provides excellent performance, as well as gloss topcoat (gloss hold out). The drying profile allows fast topcoating and / or fast handling. The low VOC content (<250 g / l) allows its use as an architectural and automotive primer *. For maximum protection and resistance, it is recommended to topcoat with Synthane or Northane polyurethane or Pepin Polyaspartic.

Intended uses :

- Manufacture, maintenance, repair or restoration of mobile equipment or their parts: trailers, trucks, agricultural machinery;
- Structures and non-rolling metallic equipments: containers, tanks, fixed machinery, conveyors, steel beams;
- Locomotives, wagons.

* In accordance with existing Canadian Regulations on Volatile Organic Compounds (SOR / 2009-264 and SOR / 2009-197).

ADVANTAGES

- Improved productivity due to rapid development of hardness ;
- Low VOC (<250 g/l) ;
- Very good anti-corrosive properties ;
- Excellent carbamation resistance (blush);
- High build capabilities for 1 coat primer application;
- No induction time ;
- Excellent DTM and intercoat adhesion ;
- Easy to apply with any traditional spray equipment;

TECHNICAL DATA

Available colors	Light grey, white, black Or according to request	Packaging (part A)	Grey, white, black 2,84L; 11,34L
Gloss	Semi-gloss	Density (part A)	1,40 – 1,50 kg/l (may vary according to color)
Solids by volume (3A+1B)	62 % ± 2 (may vary according to color)	Shelf life	12 months @ 25 °C (77 °F)
Solids by weight (3A+1B)	73 % ± 2 (may vary according to color)	Viscosity (part A)	65-70 KU (25 °C)
Theoretical coverage (3A+1B)	990 ft ² /gal. US @ 1 D.F.T. 92 m ² /3.78 litres	VOC (3A+1B)	<250 g/L (<2.1 lbs/gal. US)



PRODUCT DATA

Recommended dry film thickness	2.0 – 6.0 mils (50-125 microns) D.F.T.
Induction time	Not required
Thinner**	ST904 (regular), ST901 (fast)
Mixing ratio	3 : 1 by volume

** for more recommendations in accordance with VOC Regulations contact your representative

Drying schedule @ 25 °C (77 °F) @ 40 % R.H. @ 6 mils wet (150 microns wet)	
Hardener	EPC3750
Pot life	2 hours
Dry to touch	1.5 hours
To recoat (possible from)	1.5 hours
To handle	3-4 hours
Hard	6-8 hours

Laboratory tests have shown that it can be recoated, without sanding, for at least a week. However, depending on the thickness, application and temperature conditions, drying and recoating settings may vary. It is recommended to consult your technical representative.

PERFORMANCE

Tests performed with EPS37525/EPC3750 (3/1) and STX/SPC1158 (1/1) (7 to 8 mils dry)

Test	Methods	Results
Adhesion (DTM and intercoat)	ASTM D3359-09	5A, 5B
Salt spray	ISO 12944	C3 High
Direct impact	ASTM D2794	50-60 lbs/po
Hardness	ASTM D3363	3H – 4H



SURFACE PREPARATION

Remove all grease, oil, salt and dirt in accordance with SSPC-SP-1 "solvent cleaning" . Remove any peeling paint. For new or existing surfaces: "direct to metal" coatings achieve maximum performance over near white blasted surfaces in accordance with SSPC-SP-10. If situations of cost limitations dictate, then lesser degrees of surface preparation is acceptable (see SSPC-SP-6; SSPC-SP-3; SSPC-SP-2). The minimum for non-immersion service is SSPC-SP-1; for immersion surface the minimum standard is SSPC-SP-6. Both results will provide a lower performance when compared to SSPC-SP-10.

MIXING AND DILUTION

EPS375XX is a two component product, available in 2.84L and 11.34L for Part A (epoxy) and in 946ml and 3.78L for Part B (hardener). Mix Part A thoroughly until homogeneous. Then add Part B slowly, stirring continuously until homogeneous (about 5 minutes). Apply within the recommended time.

Product is ready to use, if needed, add 5 to 10% of ST860.

POT LIFE of this product is around 2 hours at 25 °C (77 °F.) Higher temperatures will reduce pot life. It can be diluted, if needed, (up to 10%) with recommended thinner. Solvent addition must be made only after Part A and Part B are mixed together, it can improve the levelling properties but decrease the resistance to sagging and dripping.

APPLICATION

EPS375XX can be applied by brush, roller or spray system. Recommended method of application : airless spray.

Conventional:

(0 to 10 % dilution)
 MBV De Vilbiss or équivalent
 Fluid nozzle: E fluid tip
 Air cap: 765 E tip
 Atomazing air: 45 to 65 lbs
 Fluid pressure: 15 to 20 lbs

Airless spray:

Pump ratio: 20:1 minimum
 Fluid pressure: 1100 to 1500 psi
 Tip size: 13 to 17 orifices

Air assisted airless

Pump ratio: 20:1 minimum
 Fluid pressure: 1100 to 1500 psi
 Atomazing air: 20 to 40 lbs
 Tip size: 12 à 14

Above values are standard recommendations. Contact your representative for any additional adjustments.
 HLVP: according to manufacturer's directions.

LIMITATIONS

Outdoor exposure may cause color fading or chalking, but does not affect its protective properties.



SYNGUARD EPS375XX
EPOXY COATING
FAST DRY



IMPORTANT

Product must be used in accordance with the information in this technical data sheet, label and Safety Data Sheet.

EPS375XX is not intended for residential use. Contact your representative for further recommendations.

See label and Safety Data Sheet for more information on safety and precautions requirements.

Keep away from open flame or sparks. Flammable.

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