

General Description:

EPOCOAT SF is a solvent – free, two components, and high build epoxy coating system consisting of an epoxy resin and amine hardener that gives a glossy finish.

Major Uses:

EPOCOAT SF is specially formulated to give superior adhesion, abrasion resistant and excellent heavy-duty coating both on steel and concrete such as breweries, textile mills, distilleries, tanks (non potable water) and other food processing and manufacturing industries.

Advantages:

- Solvent free – low odour.
- High chemical resistance.
- Hard wearing.
- Easy to clean – seamless.
- Flexible and waterproof.
- Available in wide range of colour.

Characteristics and Physical Properties:

Colour	RAL / APS
Mixing Ratio	3 : 1
% Solids (v)	100
% Solids (w)	100
Pot life @ 25°C	30 min.
Coverage	6-8 m ² /L
DFT	150 microns
Drying time @ 25°C:	
Recoat	14 hrs.
Hard	14-18 hrs.
Cured	7 days
Shelf life	12 months
VOC	0 g/L

Mechanical Properties:

Compressive Strength	70 N / mm ²
Flexural Strength	34 N/ mm ²
Tensile Strength	34 N / mm ²
Water Absorption	0.2%
Modulus of Elasticity	55 N / mm ²

Chemical Resistance:

Hydrochloric Acid	Good
Nitric Acid, 10%	Very Good
Acetic Acid, 5%	Very Good
Sulphuric Acid, 20%	Excellent
Phosphoric Acid, 20%	Excellent
Lactic Acid, 20%	Good
Sodium Hydroxide, 50%	Excellent
Petrol	Excellent
Alcohol	Excellent
Ketones	Very Good

Surface Preparation:

Priming:

Apply 1 – 2 coat of Uniseal # 110 P as a sealer and conditioner. Primer should be tack – free prior to application of EPOCOAT SF.

Steel:

Steel should be degreased with suitable degreasing solvent and then grit blasted to SS Sa 2½. Grit blasting is much preferred to wire brushing or other methods of abrasion. Immediately after blasting the surface should be coated with EPOCOAT SF.

Concrete:

New concrete should be cured for at least 28 days. Apply one (1) coat of multi etch solution, rinse and let it dry. Remove all loose debris prior to the application of EPOCOAT SF.

The above information is given to the best of our knowledge based on laboratory test and practical experience. However, as the paint is often used under condition beyond our control, we cannot guarantee anything but the quality of the paint itself. We reserve the right to change the given data without prior notice.

MAS PAINTS & CHEMICAL INDUSTRY

P.O. BOX NO: 23085, SAJJAH INDUSTRIAL AREA, SHARJAH, U.A.E

TEL NO: 009716 5311777; FAX: 009716 5311330

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Maintenance:

Remove all traces of oil, grease and other contaminants with suitable degreaser and detergent. Remove all rust and loose materials by power tool cleaning or by wire brushing. Application of wash primer to damaged or rusted surface is recommended prior to the application of EPOCOAT SF.

Mixing and Application:

- Stir well each container particularly resin base using a flat paddle.
- Mix thoroughly 3 parts of Resin A to 1 part of Hardener until homogenous. Do not add solvents or thinner.
- Mechanical mixing using power drill with low RPM is much preferred to ensure a homogenous solution.
- EPOCOAT SF can be suitably applied by brush or roller at a minimum thickness of 150 – 200 microns. The first coat should be firmly applied and scrubbed well into the surface, ensuring that a continuous film results of uniform thickness.
- The second coat will cover more readily than the first and should be applied within the overcoating intervals mentioned.
- Faster rate of application can be achieved by using airless spray gun.

Airless Spray Data	
Nozzle Orifice	0.38-0.46 mm
Nozzle Pressure	1138-1710 psi

Typical Recommended System:

Steel	
Epoprime Basecoat	1 coat
EPOCOAT - SF	1 coat
Concrete	
Uniseal # 110 EP	1 coat
EPOCOAT - SF	1 coat

Coverage:

Coverage above-mentioned are theoretical, and based upon plain application to a properly prepared surface. Since application conditions vary greatly on the substrate porosity, quality of surface preparation, thickness and wastage factors.

Storage:

At least 1 year in unopened cans. The product should be stored in cool and dry area. Keep container tightly closed.

Cleaning of Tools:

All tools should be cleaned with Wash Thinner or Epoxy Thinner # 135 as soon as possible.

Physiological Hazards:

Keep Resin and Hardener away from eyes and skin contact. Good ventilation should be provided particularly in closed work areas. Keep uncured epoxy materials away from the mouth, food or drink, do not use empty tins to store food and do not empty cans into drains. Always wear gloves and safety materials when handling this product. Clean any splashes or smears from the skin immediately, using warm water and soap. Avoid inhaling vapour. If swallowed, seek medical attention immediately. Do not induce vomiting.

For further information, please refer to the Material Safety Data Sheet of the product.

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