



SEMPOXY EPO GUARD

TWO COMPONENT SOLVENT FREE ANTI -CORROSIVE EPOXY COATING

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1 DESCRIPTION

Two component solvent free epoxy coating for protecting of steel and concrete surfaces.

2 ADVANTAGES

- Glossy
- Anti- bacterial
- Easy to clean
- High mechanical strength
- Safe for drinking water tanks.
- It is elastic enough for steel surfaces.
- High chemical resistance
- Brush, roll and spraying applications.
- Solvent-free

3 USES

- Outdoor and indoors
- Vertical and horizontal applications
- Steel and concrete tanks,
- As a gas and vapor barrier coating resistant to chemical substances on walls,
- Oil and fuel tanks,
- Energy stations, sugar factories, hangars and liquid storage areas,
- Drinking water tanks,
- The beer, wine and raisin and dairy industry,
- Meat and fish industry,
- Pharmaceutical, paint and paper industry,
- Wall of Hospital laboratories, dining halls, wet areas and hygienic environments.

4 TECHNICAL SPECIFICATIONS

QUALIFICATIONS	FEATURES	METHODS
Color	Grey, White , Ral Colors	-
Density	1,50±0,02 g/cm ³	ASTM D1475 / DIN 53217 / ISO 2811,20°C
Hardness	90 ± 5 Shore D	ASTM D2240 / DIN 53505 / ISO R868
Mixture Ratio (A+B)	4,40 : 0,60 By Weight	-
Solid Content (A+B)	%100	-
Mixture Pot Life (+25°C)	45 minutes	-
Abrasion Resistant	<3000 mg (TABER)	-
Surface Temperature	+5°C / +30°C	-
Elongation at Break	%3	-
Tensile Strength	>2 N/mm ² (7 days)	EN 1542
Tack Free	12-24 hours	-
Full Curing	7days	-

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5 CHEMICAL RESISTANCE

CHEMICAL TYPE	RESULT
Formaldehyde (40%)	3
Sulfuric Acid (H2SO4) 50%	3
Hydrochloric Acid (HCL) 50%	3
Lactic Acid (HCL) 50%	3
Nitric Acid (HNO3) 100%	3
Sodium Hydroxide (NaOH) (50%)	3
Diesel Oil	2
Xylene	3
Acetone	1
Toluene	3
Hard Water	3
Butyl Acetate	2
Vegetable Oils	2

*3- Very Durable 2- Durable 1- Non-durable - Tendency

6 CONSUMPTION

Each Layer: 300 g/m²

Total min. consumption: 600 g/m²

7 PACKAGING

A +B Comp.: 4,40KG + 0,60 Kg (5 kg) set in plastic pails.

8 APPLICATION PROCEDURE

SURFACE PREPARATION

Sempoxy Epo Guard kaplanacak beton veya metal yüzeylerin temiz, düzgün ve sağlam olarak hazırlanmış olduğundan emin olunmalıdır.

Concrete : The concrete surface must be clean, solid and have sufficient compressive strength (>25N/mm²), and tensile strength must be >1.5N/mm². The concrete floor to be insulated must be solid and there must be no movement on the surface. The surface should be cleaned with pressurized water and freed from oil, grease, dirt, mortar particles and dust. Concrete surfaces should be prepared to obtain an open porous surface by removing cement grout using abrasive equipment.

Steel : Steel surfaces should be thoroughly cleaned of all kinds of oil, grease and rust residues. The cleaning should be done with an air blast gun or a cup wire brush or sunblasting machine. After cleaning Sempoxy Epo Guard is applied on the surface. Surface should be kept away corrosion.

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Mixing: Component A is mixed with a low speed (300-400 rpm) mechanical mixer until it becomes homogeneous. Component B is then added to component A and the mixture is mixed continuously for 2 minutes until it becomes homogeneous. Avoid over-mixing to minimize air entrainment.

Application : Sempoxy Epo Guard can be applied with a velvet roller or special spraying machine. To obtain a complete coating, Sempoxy Epo Guard should be applied in two layers. The best application method is to apply the second layer before the first layer is completely ashed. If the application between layers exceeds 24 hours, the surface should be roughened.

Top coat : When a new coating is required due to damage etc., the area to be treated should be thoroughly abraded with a wire brush or sandpaper to ensure sufficient mechanical adhesion. The weak coating should be completely cleaned and the process should be repeated as if it was applied for the first time.

9

STORAGE AND SHELF LIFE

Can be kept for minimum 12 months in the original unopened pails in dry places and at temperatures of 5-25 oC. Once a pail has been opened, use as soon as possible.

10

PRECUATIONS

Flammable and explosion products should be kept away during the application. Protective gloves and masks should be used for hands and eyes during application. The product should be used in well ventilated environments. If the material comes into contact with eyes, it should be washed immediately with sufficient water. Children should be kept away from the product. For more detailed information, ask for the Safety Data Sheet (MSDS).

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