

REC EPO COAT WB 7

Non-toxic solvent free, high chemical resistant, epoxy coating

PRODUCT

REC EPO COAT WB 7 is a two-part, solvent free, non-toxic, epoxy resin based coating with outstanding mechanical properties. It is specially formulated to have excellent chemical and high abrasion resistance, as well as superb waterproofing features for concrete and metals surfaces.

ADVANTAGES

- Easy to apply, solvent free, non-toxic
- High abrasion resistance
- Approved for direct contact with potable water
- Easy to clean, smooth gloss finish
- Doesn't need primer
- Hygienic and anti-fungus growth
- Very good resistance to corrosion and chemicals attack
- Waterproof and protective coating

SCOPE OF USE

REC EPO COAT WB 7 is ideal to be used for

- Lining of potable water and food process structures, like storage areas and piping.
- Lining of chemicals storage tanks of petroleum and petro-chemicals products. Also it is used as a protective coating for water reservoirs, tanks, pipes, marine structures, oilfields, refineries, tunnels, etc.

CHARACTERISTICS

Form	Liquid
Color	Grey
Solids content, %	100
Density (ASTM D 1475) kg/ltr @ 25°C	1.40 ± 0.05
Pot life min @25°C	± 25min
Initial setting time hrs @25°C	around 2
Overcoat time hrs @25°C	12-36
Full cure time days @25°C	7
Adhesion to concrete (ASTM D 4541) N/mm ²	>3
Water absorption (ASTM C 413) %	<0.03
Tensile strength (ASTM D 2370) N/mm ²	>30

Abrasion resistance (ASTM D 4060)	44 mg/1000 cycles (CS17 wheels)
Reduction in chloride ion uptake (taywood method)	100%
Carbon dioxide diffusion resistance. Classification in accordance with BS EN 1062-12004 & BS EN 1062-6:2002	Class 1

APPLICABLE STANDARD

WRAS approval for use with potable water (Meets the requirements of BS 6920 @23°C).

Test	Result
Odour and flavour of water BS 6920: Part 1: 2014, Clause 4-23°C	Pass
Appearance of Water BS 6920: Part 1: 2014, Clause 5	Pass
Growth of Microorganisms BS 6920: Part 1: 2014, Clause 6	Pass
Extraction of substances that may be of concern to public health BS 6920: Part 1: 2014, Clause 7 - 23°C	Pass
Extraction of substances that may be of concern to public health BS 6920: Part 1: 2014, Clause 7 - 65°C	Pass
Extraction of Metals BS 6920: Part 1: 2014, Clause 8 - 65°C	Pass

CHEMICAL RESISTANCE

The fully cured **REC EPO COAT WB 7** is resistant to a wide range of chemicals:

Salt water
Kerosene
Ammonia 20%
Citric acid 20%
Nitric acid (HNO₃) 20%
Lactic acid 20%
Soda solution (saturated) (NA₂CO₃)
Sodium hydroxide 40g/L
Phosphoric acid (H₃PO₄) 20%
Formic acid 10%
Alum at 60°C



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INSTRUCTIONS FOR USE

SURFACE PREPARATION

All surfaces should be clean, dry and free from grease, laitance, oil or dust. Remove all loose material. Moisture content should not exceed 5%. New concrete should be at least 28 days old. Old, loose coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Possible surface irregularities need to be smoothed, in prior to apply **REC EPO COAT WB 7**.

All steel substrates should be free from dirt, oil and grease and blast-cleaned to Sa 2 ½ according to EN ISO 12944, part 4.

PRODUCT PREPARATION

Pour the entire contents of the smaller can (hardener) into the base container and the material should be mixed well for at least two minutes by mechanical mixer using a slow or medium speed mixing drill. The epoxy must be well mixed to ensure proper chemical reaction. After mixing, apply immediately.

PRODUCT APPLICATION

REC EPO COAT WB 7 doesn't need primer. Once mixed, the material should be immediately applied using a brush, roller or spray ensuring a continuous coating of uniform thickness. Two coats are recommended to obtain the required protection level, keeping 12-36 hours in between them.

REC EPO COAT WB 7 can be applied by brush, roller or airless spray for internal application. Do not add solvent, water or thinner at any time during the mixing or the application.

CLEANING

Tools and equipment should be cleaned with epoxy thinner immediately after use.

COVERAGE

3.5 m / kg @ 200 microns DFT, per coat.

STORAGE

One year after manufacturing date in its original packing nonopen and in dry cool area.

SAFETY PRECAUTIONS

Application should be done in a ventilated area away from any heat source. Wear protective gear for hands and eyes and avoid breathing of vapor. If mixed resin comes into contact with the skin, it should be promptly removed before hardening, followed by thoroughly washing the skin with soap and water. In case of heavy vapor inhalation, place affected person in an open-air area. In case of contact with eyes, wash thoroughly with clean water. If swallowed, do not induce vomiting. In all cases, seek medical attention. In case of fire, use CO₂ foam to extinguish. Tightly seal containers when not in use, store them away from heat and carefully dispose empty ones.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

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