

REC EPO COAT WB 8

WATER-BASED EPOXY PRIMER

PRODUCT DESCRIPTION

REC EPO COAT WB 8 is a transparent, rigid, two-component epoxy primer. It is a water-based primer used as a universal primer for waterproofing, sealing and floor-coating applications on both absorbent and non-absorbent surfaces. **REC EPO COAT WB 8** cures through a chemical reaction (cross-linking) between its two components. **REC EPO COAT WB 8** can be used as a primer for cement-based flooring systems, and as a vapor barrier beneath smoothing, thin, and thick mortar.

ADVANTAGES

- Simple application by roller or brush.
- Low odor.
- Excellent adhesion to absorbent and non-absorbent surfaces.
- Provides vapor-barrier properties.
- Can be applied on moist surfaces without loss of adhesion.
- Resistant to stagnant water.
- Can be diluted with water.
- Provides high tensile and impact strength.
- Heat- and frost-resistant.
- Helps prevent dust formation.
- Resistant to chemicals.

SCOPE OF USE

REC EPO COAT WB 8 is mainly used as a primer for polyurethane waterproofing coatings, polyurethane joint sealants, and polyurethane and epoxy floor coatings on non-absorbent surfaces such as:

- Power-floated concrete.
- Metal surfaces.
- Asphalt.
- Bitumen felts.
- Ceramic tiles.
- Glass.
- Old acrylic-based coatings.
- Similar non-absorbent substrates.

TECHNICAL DATA

Color	Milky yellow	—
Composition	Epoxy resin + hardener, water-based	—
Mixing Ratio	A/B = 3:1	—
Adhesion to Aluminium	>2 N/mm ²	ASTM D903
Adhesion to Concrete	>1.8 N/mm ² (concrete failure)	ASTM D903
Hardness (Shore A Scale)	>95	ASTM D2240
Resistance to Water Pressure	No leak (1 m water column, 24 h)	DIN EN 1928
Application Temperature	10°C to 35°C	—
Pot Life	45–50 minutes	Conditions: 20°C, 50% RH
Overcoating Time	6–12 hours	Conditions: 20°C, 50% RH
Final Curing Time	7 days	Conditions: 20°C, 50% RH

INSTRUCTIONS FOR USE

SURFACE PREPARATION

All surfaces must be clean, dry and free from grease, oil, dust and other contaminants. Remove all loose material. The moisture content of the substrate should not exceed 5%. The substrate should have:

- Minimum compressive strength: 25 MPa
- Minimum cohesive bond strength: 1.5 MPa

Old or loose coatings, dirt, fats, oils, organic substances and dust should be removed using suitable mechanical methods, such as a grinding machine. Any surface irregularities should be repaired and smoothened. All loose surface particles and grinding dust must be thoroughly removed.

WARNING: Do not use a metal-ball blasting machine for grinding the surface. Heavy metal-ball impacts can damage the cohesion of the concrete surface and reduce its stability.

PRODUCT PREPARATION

REC EPO COAT WB 8 Component A and Component B should be mixed using a low-speed mechanical stirrer according to the specified mixing ratio of A/B = 3:1. Mix thoroughly for approximately 3–5 minutes, paying particular attention to the walls and bottom of the container, until the mixture becomes completely homogeneous. Dilute the mixture with 15–25% clean water as required to regulate viscosity.

PRODUCT APPLICATION

Apply diluted **REC EPO COAT WB 8** containing 15–25% clean water by roller or brush until the surface is uniformly covered. After approximately 6–12 hours, and not later than 24 hours, apply the polyurethane coating finish while the primer is still slightly tacky. If the substrate is very brittle or highly porous, such as lightweight concrete or porous cement screed, apply two layers of **REC EPO COAT WB 8**. For optimum results, the temperature during application and curing should preferably be maintained between 5°C and 35°C. Low temperatures will retard curing, while high temperatures will accelerate curing. High humidity may affect the final finish. If the primed surface is exposed to rainwater during this period, allow a maximum of 3 days before applying the subsequent product, subject to the surface being suitable and properly prepared.

APPLICATION ON ABSORBENT SURFACES AND AS A VAPOUR BARRIER

When **REC EPO COAT WB 8** is used as a primer on absorbent surfaces such as concrete, as a primer for cement-based flooring products, or as a vapor barrier under smoothing, thin or thick mortars, the substrate should be prepared to provide adequate mechanical adhesion. Scatter suitable silica sand onto the second layer of **REC EPO COAT WB 8** while the coating is still fresh. As soon as the first coat can be walked on, apply a second coat at a rate of approximately 100–200 g/m². Immediately broadcast silica sand with a particle size of 0.3–0.8 mm over the entire surface to saturation, at approximately 3 kg/m². After at least 24 hours, remove excess sand by sweeping and vacuuming. Subsequently, apply the self-leveling product in accordance with the relevant manufacturer's recommendations.

CLEANING

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

COVERAGE

Approximately 100–200 g/m² in one or two layers.

This consumption rate is based on practical roller application to a smooth surface under optimum conditions. Actual consumption can vary significantly depending on substrate porosity, temperature, humidity, application method and the required finish.

STORAGE

Shelf life is one year from the date of manufacture, provided the product remains in its original, unopened packaging and is stored in a cool, dry area.

SAFETY PRECAUTIONS

Avoid contact with skin and eyes and do not inhale vapors or spray mist. Wear suitable gloves, eye protection, and protective clothing during mixing and application. Use in a well-ventilated area.

QUALITY STATEMENT

All our products are manufactured to comply with our internal quality management system to ensure consistency and quality.

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. This Data Sheet version is the latest one. The company may modify it without any prior notice. Technical characteristics are listed for guidance only. For more information, please contact the head office of RECKON CHEMICALS PVT LTD. located in Lahore.

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