

REC COAT BZ 90

TWO COMPONENT, COLORED EPOXY RESIN FOR FLOORING

DESCRIPTION

REC COAT BZ 90 is two component, colored, aromatic and fluid epoxy resin as a coating. Once cured, it forms a continuous seamless high resistant to abrasion and wear coating. For flooring and coating surfaces for pedestrian and vehicular traffic in commercial or industrial uses.

PRIMARY APPLICATIONS

For application in the following situations:

- Vehicular areas as garages, car-parks, or industrial floorings
- In areas such as the chemical and food industries and commercial areas
- As protection against liquid spills and aggressive chemicals.

TECHNICAL INFORMATION

PROPERTIES		VALUES
Density	ISO 1675	±1.55 g/cm ³
Viscosity	ISO 2555	3.000 - 3.200 cps
Density compounds A/B	ISO 1675	±1.65 g/cm ³ / ± 1.15 g/cm ³
Viscosity compounds A/B	ISO 2555	4,500 - 4,900 cps / 600 - 800 cps
Mixing ration (in weighth)		4.7:1
Solids content	ISO 1768	100 %
VOC Content	ASTM D-2369	16 g/l (PASS)
VOC Emission		Class. A+(French VOV Regulation)
Hardness Shore A/ D at 7 days		>98 / >75
Antiskid	UNE 41901:2017 EX	Class 3 (PTV=58), suitable for surfaces with a slope <6%, dry interior areas / application with addition of Tecnoplastic C (7-8% by weight)
Adherence resistance	UNE-EN 13892-8	3.6 MPa
Impact resistance	UNE-EN ISO 6272-1	>14.7 Nm / At 1500 mm no damages. Crater diameter: 4.2 mm
Wear resistance	UNE-EN 13892-4	20 ^μ m
Reaction to fire	ISO-11925-2 Efl	
Pot-life/ drying time / curing time / recoat range time		±50 minutes / 4-6 hours / ±7 days (avoid until this moment contact with water or other reagents) / 6~48 hours
Walkable (pedestrian/ vehicular)		24 hours / 7 days
Application temperature range (substrate / environment)		5~35°C / 5~30°C (41~95°F/41~86°F)
Use temperature Range (environment)		-20~80°C (-40~176°F)
Max. environment moisture		±80 %

Results performed in the laboratory at 23°C (73°F) and 50% RH, under controllable conditions. These values may vary depending on the application, climatology, or substrate conditions.

DIRECTIONS FOR USE

MIXING PROCEDURE

Open pails of both components and homogenize each one by mixing equipment at medium speed. Pour component B into the container of component A. Mix using electric mixing equipment at medium speed, until a homogeneous product is obtained. In case of doubt, apply in a limited area to check.

APPLICATION METHOD

Concrete/mortar substrate: Concrete should be completely cured (concrete curing takes 28 days) or, in any case, the maximum level of humidity allowed for the substrate should be verified, depending on the primer used. Concrete must be strong, cohesive and dry, having a correct planimetry, high surface resistance, eliminating laitance, graise, oils or release agents, without excessive irregularities. Therefore, the previous action of sanding, polishing, milling or shot- blasting will be assessed by the applicator to achieve a preparation of the substrate according to ICRI Guide 03732, CSP values 3 to 5. Existing holes or areas with a lack of material must be repaired using some of our epoxy resins.

Primer: REC Primer must be used on fissures or small cracks on the surface. In joints: remove old material, clean and fill with REC PU Sealant. In structural/expansion joints: remove old material, clean and fill with REC PU SEALANT. Complement with specific elastic bands. General cleaning of the substrate. PRIMING: use REC Primer depending on the existing moisture in the substrate. Apply the resin

NOTE: For other types of substrates, weather conditions or the substrate to be applied, consult our technical department.

APPLICATION TYPOLOGIES

Paint: Apply a first layer of the resin by brush, short-haired roller. Consumption approx.: 275-300 g/sqm. After dry time, apply a second coat. For the application, a brush or short-haired roller can be used. Consumption approx.: 275-300 g/sqm. On very absorbent substrates or for very light colors, it may be necessary to apply a third layer of resin.

Multilayer: Apply a first coat of the resin by brush, short-haired roller. Consumption approx.: 300 g/sqm. After dry time, sprinkle the surface with aggregates (Silica Sand) until saturation. Once hardened, the remaining aggregate must be removed by sweeping. Lightly sand the surface and then vacuum the residues generated. Apply a second coat of the resin by brush, short-haired roller. Consumption approx: 300 g/sqm. **Self-leveling:** In this type of application is possible to mix graded clean and dry quartz sand 0.1~0.5 mm. In mixing ratio of $\pm 1:0.7$ or $\pm 1:1$ depending on the temperature and desired workability. Pour the resin on the substrate, then distributing it with a notched trowel with which you can control thickness and required yield. Once past 20 minutes is necessary to pass a spiked roller with which the air outlet will facilitate within the material. The total minimum recommended yield is ± 1.55 kg/sqm/mm (pure material), depending on the degree of roughness of the substrate.

GENERAL SPECIFICATIONS

- 100% solid, colored epoxy resin, with high fluidity and covering power, which once dry forms a coating with high surface hardness, continuous, completely adhered to the substrate and with great adhesion, without joints or overlaps and easy to clean and maintain.
- It holds a CE marking on the basis of a statement made DoP Declaration of Performance (DoP) under the UNE- EN 13813:2014
- Solvent-free, odorless (100% solids). Do not add water or solvent in any case
- It has obtained the highest A+ classification according to the ISO 16000 standard (Air emissions) for emissions of volatile organic compounds (VOCs).

- The application must be carried out on firm, resistant substrates and in conditions of no presence of moisture in the substrate or water from the substrate or backsplash, either at the time of application or afterward (pressure from the water table...). In the case of existing humidity in the substrate at the time of application, consult the technical data sheets of our primers where the ranges of resistance to humidity are specified.
- The final product is made by mixing the two components delivered in the kit. In case of making applications with partial mixture of both components, respect the mixing ratio at all times so that the final product obtains the best product conditions.
- Use the same batch of product in each area of application to avoid the minimum and possible color change
- Do not use heat cannons that burn fossil fuels in case of need to increase the ambient temperature. These conditions facilitate the appearance of white spots related to the carbonation of the material. Use in any case electric heaters.
- In case of high relative humidity during application and drying, a matt even whitish finish may result due to the difficulties in drying the water. To avoid this, it is recommended to promote ventilation of the environment during application and during the first 24 hours of drying, using forced ventilation if possible.

PACKAGING

REC COAT BZ 90 is available in 09 kg and 20 kg packs.

STORAGE

REC COAT BZ 90 have a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 35°C.

If these conditions are exceeded, Reckon Technical Department should be contacted for advice.

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