



# DURACOAT EPO (EPOCOTE)

## TWO COMPONENT, EPOXY BASED FINE COATING

- Aesthetic finish
- Excellent resistance against chemicals
- Wide range of colors

### DESCRIPTION

**DURACOAT EPO** is a two component, epoxy based, fine surface coating that provides resistance against aggressive chemicals on application surface.

### TYPICAL APPLICATIONS

- Internal applications,
- Vertical and horizontal applications,
- Factories,
- Food production and storage facilities,
- Labs, hospitals and other sterile facilities,
- Storage and packaging facilities subject to low and medium loads,
- Parking lots, walkways,
- Shopping centers and supermarkets,
- As paint on smooth surfaces.

### ADVANTAGES

- Solvent-free.
- High compressive strength.
- Easy to use, hygienic.
- Aesthetic finish.
- High bonding resistance.
- Resistant to harmful chemicals.
- Wide range of colors.
- Stain and scratch proof.
- Provides a smooth surface.

### TECHNICAL PROPERTIES

**Color:** RAL colors

**Physical State:** Two component

**Mortar Density:**  $1,35 \pm 0,05 \text{ g/cm}^3$

**Application Temperature:**  $+10 \text{ }^\circ\text{C}$  to  $+35 \text{ }^\circ\text{C}$

**Touch Dry in:** 6 to 7 hours

**Time Required Before Consequent Layer Application:** 24 hours

**Full Cure:** 7 days

**Service temperature:**  $-30 \text{ }^\circ\text{C}$  -  $+80 \text{ }^\circ\text{C}$

**Compressive Strength (ASTM D 695):**  $> 50 \text{ N/mm}^2$

**Expansion Strength (DIN 1164):**  $> 50 \text{ N/mm}^2$

**Tensile Strength:**  $> 3,5 \text{ N/mm}^2$

The values above are valid for  $23 \text{ }^\circ\text{C}$  and 50% relative humidity.

### DIRECTIONS FOR USE

#### SURFACE PREPARATION

- Application surface should have a minimum compressive strength of  $225 \text{ kg/cm}^2$ , and should be dry and clean.
- Concrete should contain max. 5% humidity.
- Surface sheen homogeneity might differ depending on the surface porosity. Surface should be smooth and at level for better results.
- Large cracks and surface defects should be repaired using **FIXGROUT GP** or **FIXGROUT EXPAN**.

#### MIXING

- **DURACOAT EPO** is supplied as a ready to use set, with proper mixing ratios. Please make sure that the material temperatures are between  $+10 \text{ }^\circ\text{C}$  and  $+35 \text{ }^\circ\text{C}$  before mixing.
- Component A of **DURACOAT EPO** contains pigments.
- Mix Component A thoroughly using a mechanical mixer (300-400 rt/min), with epoxy / polyurethane resin mixing probe until a homogenous color is achieved. Make sure that no air is entrained in the mixture during mixing.
- Add the full quantity of **DURACOAT EPO** Component B into **DURACOAT EPO** Component A, mix for minimum 3 minutes.
- At the time of application 0.1 - 0.3 mm of quartz sand may be added into the mixture at 1:0.5 ratio by weight if required.

#### APPLICATION

- Apply the mixture onto the surface by a brush or roller. It is recommended to apply the second layer perpendicularly onto the first layer in order to provide a homogenous finish. Second layer should be applied within the 24 hours of the application of first layer.
- Attention should be paid to corners and joint edges.
- Blooming would occur if surface temperature is not maintained over  $+10^\circ\text{C}$  within the first 48 hours of curing.
- In vertical surface applications, avoid applying excessive quantities of material in order to prevent drippage. Apply material carefully with a brush.
- Coating should be applied up to the edge of joint, not over to the joint sealant/filler.

#### In order to achieve a non-slip surface:

- Apply a layer of **DURACOAT EPO** onto the floor. Spread a fine layer of aggregate onto **DURACOAT EPO** coating and allow material to achieve initial cure. Remove excessive aggregate from the surface and apply the second layer of **DURACOAT EPO** onto the first (now aggregated layer) thoroughly and uniformly. The amount of aggregate to be utilized in the application varies according to the application surface texture.

**Mild texture:**  $250 \text{ gr/m}^2$

**Medium texture :**  $500 \text{ gr/m}^2$

**Dense texture:**  $1 \text{ kg/m}^2$

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## TWO COMPONENT, EPOXY BASED FINE COATING

### WATCHPOINTS

- Keep water and chemicals away until **DURACOAT EPO** is fully cured (at least 7 days). Failure to do so may result in discolorations.
- Second layer should be applied at least 6 hours after first layer has dried properly.
- Surface brightness might not be permanent or homogenous where ambient humidity is over 85%. It is recommended to perform a trial application on a small area for such cases.
- For applications performed in extremely cold weather, ambient and floor temperatures should be increased by heaters, and packs should be conditioned to be between +10 and +35 °C to a work-ready state.
- Design joint strip dimensions in regard to structural movements and align with existing joints.
- Manual mixing is not allowed.
- Upon completion of initial mixing process, the mixture should be taken into a clean container, and mixed again. Pouring downright from initial mixing container might cause problems in setting.

### CONSUMPTION

0.200 - 0.300 kg/m<sup>2</sup> per coat (2 coats)

### PACKAGING

**Component A:** 17,6 kg container

**Component B:** 2.4 kg container

### STORAGE and SHELF LIFE

Store in dry and cool locations. Shelf life is 12 months under suitable storage conditions. For un-mixed materials, tightly close the lid of the container for later use.

### HEALTH and SAFETY

As with all chemical products care should be taken during use and storage. Avoid contact with food, skin, clothes, eyes and mouth. If accidentally ingested seek immediate medical attention. In case of contact with skin or eyes, wash with a plenty of water and soap. Should be kept away from children. Reseal containers after use. Please consult Material Safety Data Sheet (MSDS) for further information.

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