

DURACOAT EPO SL (EPOLEVEL)



THREE COMPONENT, EPOXY BASED, SELF-LEVELING FLOOR COATING

- Joint-free, dense and compact surface
- Excellent resistance against chemicals
- Wide range of colors

DESCRIPTION

DURACOAT EPO SL is a three component, solvent-free, self-leveling, epoxy based floor coating with excellent mechanical, abrasion and chemical resistance that can be applied upto 4 mm thickness.

TYPICAL APPLICATIONS

- Internal applications,
- Horizontal applications,
- Factories,
- Food production and storage facilities,
- Labs, hospitals and other sterile facilities,
- Areas exposed to heavy loads and corrosive chemicals,
- Airplane hangars,
- Nuclear and conventional power plants.

ADVANTAGES

- Solvent-free.
- Resistant to sea water, waste water, diluted acids and bases and various chemicals.
- Easy to use, hygienic.
- Excellent wear and abrasion resistance.
- Excellent resistance to chemicals.
- Wide range of colors.
- Stain and scratch proof.
- Provides a smooth surface.

TECHNICAL PROPERTIES

Color: RAL colors

Physical State: Three component

Mortar Density: $1.60 \pm 0,05 \text{ g/cm}^3$

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

Touch Dry in: 7 to 8 hours

Time Required Before Consequent Layer Application: 24 hours

Full Cure: 7 days

Service Temperature: $-30 \text{ }^\circ\text{C}$ to $+80 \text{ }^\circ\text{C}$

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

Expansion Strength (DIN 1164): $> 55 \text{ N/mm}^2$

Tensile Strength: $> 4 \text{ N/mm}^2$

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

DIRECTIONS FOR USE

SURFACE PREPARATION

- Surface should be totally free from dirt, dust, curing materials, paints, and detached and loose particles.
- Maximum humidity content of concrete should be 5%.
- Concrete surface should be clean, firm and bearing a sufficient compressive strength (at least 25 N/mm^2), and a tensile strength of at least $1,5 \text{ N/mm}^2$.
- Remove the existing slurry from the surface. (Shot-Blast, Rota Tiger etc).

PRIMER APPLICATION

- **DURACOAT EPO SL** is a solvent-free, coating, and a strong bonding agent. The Component B is added to the Component A, and mixed for 3 to 5 minutes using a low speed mixer until

a homogenous mixture is achieved, and then applied on to the surface with a brush.

- For applications onto porous floors, priming is recommended to be in two layers.

MIXING

- **DURACOAT EPO SL** is a three component product.
- Add Component B into Component A, and mix for 3 to 5 minutes using a low speed mixer until a homogenous mixture is achieved.
- Add component C into the resulting mixture, and mix using a low speed mixer for 3 to 5 minutes until a lump free homogenous mixture is achieved.

APPLICATION

- Allow the priming layer to dry out completely.
- Pour the mixture onto surface and trowel to desired thickness.
- Work with a spiked roller for 45 minutes to drive the air bubbles (content) out of the surface. Use of spiked bottom boots during this application is recommended.
- Attention should be paid to corners and joint edges. For application surfaces where the primer is applied in two layers, only apply the second layer once the first layer has dried (approx. 6 hours).

WATCHPOINTS

- Chemicals, spilled on the floor during application, should be removed as soon as possible and the surface should be cleaned with clean water.
- Avoid exposure to water and chemicals until the material is fully cured. (at least 7 days) Failure to do so may result in discolorations.

CONSUMPTION

4-5 kg/m² for 2.5 mm thickness

PACKAGING

Component A: 20 kg container

Component B: 5 kg container

Component C: 25 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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