

Self-levelling transparent epoxy floor coating

DESCRIPTION

DUPOXY SL 3D is a two-component, solvent-free, amine-cured transparent epoxy flooring system designed to produce high-gloss, seamless decorative floors. It enhances the depth and clarity of 3D images, printed graphics and decorative inserts while providing excellent transparency, scratch resistance, chemical resistance and long-term durability for premium interior flooring applications.

RECOMMENDED USE

- 3D decorative flooring systems
- Residential interiors
- Hotels and luxury reception areas
- Shopping malls and showrooms
- Restaurants and cafés
- Offices and commercial spaces
- Museums and exhibition areas
- Decorative epoxy floor finishes

FEATURES AND BENEFITS

- Crystal-clear transparent finish
- High-gloss decorative appearance
- Self-levelling and seamless finish
- Excellent scratch resistance
- High chemical and water resistance
- Low odour and solvent-free
- Easy to clean and hygienic
- Excellent durability and hardness

PACKAGING COMPONENTS

- **Part A (Resin):** Pigmented epoxy resin, Provides the main binder and forms the base of the system.
- **Part B (Hardener):** Curing agent that reacts with the resin to create a durable and seamless finish.

PACK SIZE (1kg)

Resin	750gm
Hardener	250gm

PERFORMANCE TEST DATA

Compressive Strength (DIN EN 196)	>50 MPa
Adhesion Strength (DIN ISO 4624)	>1.5 N/mm ²
Chemical Resistance	Resistant to fuels, chemicals, solvents & lubricants
Solids Content	99%
VOC Content	Solvent free
Chemical Resistance	Resistant to fuels, chemicals, solvents & lubricants
Shelf life	18 months

TECHNICAL DATA

Working time (25°C)	approx. 20-25 minutes
Application temperature:	10 – 35°C (min. 3°C above dew point)
Density	1680 kg/m ³
Viscosity	High Viscous
Material consumption	1.8 kg/m ² per mm 5.4 – 7.2 kg/m ² for 3 -4 mm
Moisture content limit	≤4%
Over coating (23°C)	within 12 - 24hours
Cure time to withstand*: Foottraffic Heavy traffic Exposure to chemical	after 12 – 20 hours after 3 days after 7 days

Statement of Responsibility (Disclaimer)

The technical information and application advice are based on present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a products suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

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APPLICATION PROCEDURE

General

DUPOXY SL shall be applied by trained and qualified personnel in accordance with recommended application guidelines.

Substrate Preparation

The substrate shall be firm, clean, dry, and free from dust, oil, grease, laitance, coatings, curing compounds, and loose materials. Concrete shall have a minimum pull-off strength of 1.5 N/mm² and moisture content shall not exceed 4%. New concrete must be allowed to cure for a minimum of 28 days. Surface preparation shall be carried out by captive shot blasting, grinding, or scarifying to provide an open textured profile for optimum adhesion. Surface defects, holes, and cracks shall be repaired prior to application.

Priming

Apply an epoxy primer such as DUPRIME 200 epoxy primer uniformly onto the prepared substrate using a roller or squeegee. For porous surfaces, an additional primer coat may be required. After the primer has cured, install the **3D printed sheet, artwork or decorative graphic** onto the primed surface, ensuring it is clean, wrinkle-free, fully bonded and completely dry before application of DUPOXY SL 3D.

Mixing Procedure

Condition all materials to the site temperature before mixing. Premix **Part A (Clear Epoxy Resin)** for **2–3 minutes**. Gradually add **Part B (Hardener)** into Part A and mix for approximately **2 minutes** using a slow-speed electric mixer (**300–500 rpm**) until a homogeneous, bubble-free mixture is obtained. Do not dilute the product.

Application

Pour the mixed material onto the prepared decorative surface and spread evenly using a notched squeegee or notched trowel to the required thickness (**3–8 mm**). Maintain a continuous wet edge during the application to

produce a seamless, crystal-clear and high-gloss finish.

De-aeration

Immediately roll the applied material with a spike roller in two directions to remove entrapped air and ensure uniform thickness and surface appearance.

Over Coating

Over-coating should be carried out within 24 hours. Where the interval exceeds 24 hours, lightly grind the surface before applying subsequent coats.

Final Curing

Protect the applied surface from moisture, dust, and traffic during curing.

- Foot Traffic: 18–24 hours
- Heavy Traffic: 3 days
- Full Chemical Exposure: 7 days

Storage/Shelf life

Store in original unopened packaging under dry conditions, protected from direct sunlight and extreme temperatures at +5°C to +35°C. Shelf life is 18 months when stored under recommended conditions.

Precautions

Avoid contact with eyes, skin, and food materials during handling and application. Wear suitable PPE including gloves and eye protection. Keep out of reach of children. Refer to the Material Safety Data Sheet (MSDS/SDS) for detailed safety information.

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Ducon Polymer Flooring (DPF)

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