Dupoxy SL Metallic

TECHNICAL DATA SHEET (TDS)

Two-component, solvent-free, self-levelling metallic epoxy flooring system

DESCRIPTION

DUPOXY SL Metallic is a two-component, solvent-free, self-levelling metallic epoxy flooring system that creates seamless decorative floors with a unique 3D metallic finish. It offers excellent durability, abrasion resistance and chemical resistance for residential, commercial and hospitality applications.

RECOMMENDED USE

- Luxury residential flooring
- Hotels and resorts
- Shopping malls
- Restaurants and cafés
- Showrooms
- Offices
- Reception areas
- Decorative commercial interiors

FEATURES AND BENIFITS

- Decorative metallic finish
- Unique three-dimensional visual effect
- Seamless self-levelling surface
- Excellent abrasion resistance
- High chemical resistance
- Excellent adhesion
- Easy to clean and hygienic
- Low VOC and solvent-free
- Durable high-gloss finish

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)	65 MPa
Adhesion Strength (DIN ISO 4624)	>1.5 N/mm²
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/m³
Viscosity	High Viscous
Material consumption	1.8 kg/m2 per mm 5.4 – 7.2 kg/m² 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

Ducon Polymer Flooring (DPF)
www.duconasia.com

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APPLICATION PROCEDURE

General

DUPOXY SL Metallic shall be applied by trained and qualified personnel in accordance with the recommended application guidelines on properly prepared concrete substrates.

Substrate Preparation

The substrate shall be sound, clean, dry, and free from dust, oil, grease, laitance, coatings, and loose materials. Concrete shall have a minimum pull-off strength of **1.5 N/mm²** and moisture content below **4%**. New concrete shall be cured for at least **28 days**. Prepare the surface by diamond grinding, shot blasting, or scarifying to achieve a suitable profile. Repair cracks, blowholes, and surface defects using a suitable epoxy repair mortar.

Priming

Apply **DUPRIME 200 Epoxy Primer** evenly using a roller or squeegee. Alternatively, a DUCRETE MF scratch coat may be used as the primer where specified. For porous substrates, apply an additional primer coat if required. Lightly broadcast **0.2–0.5 mm quartz sand** onto the wet primer to improve adhesion. Apply DUPOXY SL Metallic within **24 hours** after priming.

Mixing Procedure

Condition materials before mixing. Premix **Part A** for **2–3 minutes**, then add **Part B** and mix for approximately **2 minutes** using a slow-speed mixer (**300–500 rpm**). Add the metallic pigment gradually and mix until a uniform, streak-free consistency is achieved. Avoid excessive mixing to reduce air entrapment.

Application

Apply the mixed material onto the primed surface and spread evenly using a notched squeegee or trowel to achieve the required thickness (**2–3 mm**). Create the desired metallic effect using suitable tools while maintaining a wet edge.

De-aeration

Use a spike roller immediately after application to remove trapped air and ensure a smooth, uniform finish.

Overcoating

If a clear protective topcoat is required, apply within **12–24 hours**. If the interval exceeds **24 hours**, lightly abrade the surface before overcoating.

Final Curing

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

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

Storage / Shelf life

Store in unopened original packaging in dry conditions, protected from direct sunlight and temperatures between **+5°C to +35°C**. Shelf life is **12 months** under recommended storage conditions.

Precautions

Avoid contact with eyes, skin, and food materials. Wear suitable PPE during handling and application. Ensure adequate ventilation and keep away from ignition sources. Keep out of reach of children. Refer to the latest **Safety Data Sheet (SDS/MSDS)** before use.