Dupoxy SL

TECHNICAL DATA SHEET (TDS)

DUCON POLYMER FLOORING

3 Component self-leveling, solvent free, colored anti-slip epoxy top coat

DESCRIPTION

DUPOXY SL is a coloured, ready-to-use 3-component anti-slip epoxy resin self-levelling coating. DUPOXY SL produces tough, joint-free, easy to clean, non-porous, seamless, floor coating layers, which designed for heavy vehicular and pedestrian traffic where anti-slip features are required. The coating is exhibits a high level of resistance to fuels, chemicals, solvents and lubricants. In generally epoxy resins are not colour stable if exposed to UV light. We recommend UV resistance coating.

RECOMMENDED USE

- Heavy duty Industries
- Pharmaceuticals & Hospitals
- Schools & Offices
- Exhibition Centers
- Laboratories
- Dry process area
- Clean rooms & Walls

FEATURES AND BENEFITS

- **Chemical resistant** – resists dilute acids and alkalis, aliphatic solvents and commercial cleaning agents Abrasion / impact resistant – hard wearing and durable
- **Highly compacted** – high compressive strength, 65 MPa
- **Excellent adhesion** to concrete and most other coating or topping systems
- **Homogeneous** – uniform colour through the depth of product
- **Self-sealing** – impervious surface finish without further seal coats.
- **Scratch resistant** – minimize the effects of scratch marks
- **Machine application** – speedy installation, consistent flat surface finish and no trowel marks
- **Low / no odour** – does not taint food
- **Solvent free** – non-flammable, no fire hazard

PERFORMANCE TEST DATA

Compressive Strength (DIN EN 196)	65 MPa
Adhesive Strength (DIN ISO 4624)	> 1.5 N/mm² (concrete failure)
Solids Content	99 %
Density (25°C)	1480 kg/m³ (A+B) 1680 kg/m³ (A+B+C)
Viscosity (25°C)	1200–2500 mPas (A+B)
Shelf Life	18 months in closed original container
Storage Protect from frost!	Dry at 10–30°C, avoid direct sunlight

TECHNICAL DATA

Working Time (25°C)	approx. 20-25 mins
Application Temperature:	10 – 35°C (min. 3°C above dew point)
Material Consumption	1.7kg/m²/mm
Over coating (25°C)	within 24hours
Cure time to withstand:	after 18 - 24 hours
Foot traffic (25°C)	after 24 hours
Heavy Traffic (25°C)	after 7 days
Exposure to chemicals (25°C)	after 72 hours

APPLICATION

Substrate Preparation:

The substrate must be firm, clean, dry and have a tensile strength of 1.5 N/mm² minimum. Wet areas shall be dried with a blow torch. The moisture content in the substrate must not exceed 4 CM%. New concrete must be allowed to cure for a minimum of 28 days. Repair imperfections (holes and cracks) with an epoxy patching compound such as DUPOXY SL where necessary. Remove surface laitance, contaminants, coating, curing compound and all weak and loose materials. Prepare substrate by Captive Shot Blasting. Rough contamination's can be removed by grinding.

Primer:

Apply an epoxy primer such as DUPRIME 200 by roller to the prepared surface. Either apply thicker

Statement of Responsibility (Disclaimer)

The technical information and application advise are based on present state of our best scientific and practical knowledge. As the information herein 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.

scratch coat using DUCRETE MF as primer. If the surface is porous, a second coat of primer may be necessary. To improve inter layer adhesion, sprinkle 0.2-0.5 mm quartz sand lightly (approx. 600 g/m^2) while the primer is still wet. The mortar coating must be applied within 24 hours after the primer has been laid.

Procedure:

Before starting the application, the material temperature must be close to site conditions. Mix Resin Component for 2-3 minutes. Empty contents of component B (Hardener) into component A (Resin). Mix with a suitable mixer at a speed of 500 rpm to avoid incorporating excessive air into the mix. Mix for 2 minutes. Add component C (Aggregate) gradually to the mix with the mixer running. Move the mixer around from side to side and top to bottom and scrap the sides of the mixing vessel to ensure thorough mixing, until homogeneous (2 – 3 minutes).

Pour the wet mix on the floor. Spread the mixed product onto the surface with a squeegee or notched trowel. Follow by spike roller to remove entrapped air.

To achieve uniform layer thickness, the tooth rows of the notched trowel must be regularly replaced. Ensure to maintain continuity of wet material between pours.

OVERCOATING

Over-coating should be carried out within 24 hours without grinding. If longer than 24 hours, it is necessary to lightly grind the mortar surface before over- coating is carried out.

STORAGE/ SHELF LIFE

Dupoxy SL must be stored where temperatures are between 10℃ - 30℃. Store under cover, out of direct sunlight and protect from extremes of temperature. Shelf life is 18 months when stored as above. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

PRECAUTION

Care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapor until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Information relating to the safe handling of this product can be found in the Material Safety Data Sheet. Local regulations concerning the safe handling of epoxy resin based coating materials must be observed. Suitable protective clothing including suitable eye protection must be worn.

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