

DESCRIPTION

DUPOXY SL is a coloured, ready-to-use, three-component self-levelling epoxy flooring system designed to provide a seamless, non-porous, and easy-to-clean surface finish. It produces a durable and joint-free floor with excellent resistance to heavy vehicular and pedestrian traffic, making it suitable for areas requiring anti-slip performance. The system offers high resistance to chemicals, fuels, solvents, and lubricants. Epoxy systems may exhibit colour changes when exposed to UV light; therefore, a UV-resistant top coat is recommended for exposed areas.

RECOMMENDED USE

- Food & Beverage Processing Facilities
- Pharmaceutical Industries
- Hospitals and Healthcare Facilities
- Warehouses and Storage Areas
- Chemical and Engineering Industries
- Textile & any kinds of Industries
- Heavy-Duty Industrial Production Areas
- Commercial Kitchens and Cafeterias

FEATURES AND BENEFITS

- Seamless self-levelling finish
- Excellent chemical resistance
- High abrasion resistance
- Heavy-duty performance
- Solvent-free, low VOC
- Easy to clean and maintain
- Excellent adhesion
- Durable and long service life

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.
- **Part C (Aggregate):** Specially graded fillers that provide thickness, strength, and impact resistance.

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	1200-2500 mPas
Material consumption	1.7 kg/m ² per mm 5.1 – 6.8 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.

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 **DUPRIME 200** epoxy primer uniformly onto the prepared substrate using a roller or squeegee. Alternatively, a **DUCRETE MF** scratch coat may be used as the primer where specified. For porous surfaces, an additional primer coat may be required. To improve interlayer adhesion, lightly broadcast quartz sand (0.2–0.5 mm) at approximately 600 g/m² while the primer remains wet. The DUPOXY SL coating shall be applied within 24 hours after primer application.

Mixing Procedure

Condition all materials to site temperature before mixing. Mix Part A (Pigmented Epoxy Resin) for 2–3 minutes. Add Part B (Hardener) into Part A and mix for approximately 2 minutes using a slow-speed mixer (300–500 rpm). Gradually add Part C (Aggregate/Filler) while continuously mixing until a homogeneous and lump-free mixture is achieved.

Application

Pour the mixed material onto the primed surface and spread evenly using a squeegee or notched trowel to the required thickness.

Maintain a continuous wet edge during application to achieve a seamless 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.

Precaution

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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