

Two-component, solvent-free, self-levelling water-based epoxy flooring system

DESCRIPTION

DUPOXY SL Flake is a two-component, water-based epoxy coating system that combines primer, sealer and base coat into a single application. Designed for decorative flake flooring systems, it provides excellent adhesion, low VOC emissions and rapid installation, making it ideal for residential, commercial and light industrial environments.

RECOMMENDED USE

- Decorative flake flooring systems
- Residential garages and workshops
- Commercial and retail facilities
- Educational and healthcare buildings
- Light industrial areas
- Showrooms and display spaces

FEATURES AND BENEFITS

- Combined primer, sealer and base coat
- Fast and efficient application
- Water-based and low VOC
- Excellent adhesion to concrete
- Low odour formulation
- Easy to clean and maintain
- Pre-tinted for decorative flake systems
- Reduces installation time and labour cost

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/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 Flake 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**). 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**). While the coating is still

wet, **uniformly broadcast decorative flakes** to the desired rejection. Allow the coating to cure completely before removing loose flakes and applying subsequent seal coats if required

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.

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