

Epoxol[®] Design

Solvent-free epoxy system, suitable for the creation of self-leveling decorative floors

Fields of application Epoxol[®] Design can be applied on superstores, hotels or residential floors, restaurants.

Properties Epoxol[®] Design is a two-component epoxy decorative system based on selected resins and hardeners without solvents. It consists of a colored resin (A + B) which is used as **base coat** and a **metallic effect resin** (A + B). It creates a stunning, multi-dimensional metallic effect.

Technical Characteristics

Appearance	Gloss
Density	Component A: 1,2-1,35 gr/cm ³ (depending on the shade) Component B: 1,02 gr/cm ³
Mixing ratios (weight prop.)	100A:35B
Curing time (+25°C)	10 hours
Pot life (+25°C)	40 minutes
Dry to recoating (+25°C)	24 hours
Minimum temperature application	+12°C
Walkability (+25°C)	24 hours
Total hardening	~ 7 days
Abrasion resistance	81 mg (ASTM D 4060, TABER TEST, CS 10/1000/1000)
Impact resistance	IR4 (EN ISO 6272)
Hardness-Shore D 15" (ASTM 2240)	81
Compressive strength (DIN 53452)	105 N/mm ²
Flexural strength (DIN 53452)	73 N/mm ²
Adhesion strength	≥ 3 N/mm ²

Quality/Preparation of Substrate

The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm². The substrate must be clean, dry (surface humidity content <4%) and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

Moreover, imperfections of new surfaces should be smoothed with pulveriser for lower material consumption and achieving better adhesion properties.

Application of Primer

Epoxol[®] Primer (thinned 10% per weight with solvent Neotex 1021) is applied in one layer (2 coats required in cases of increased porosity of

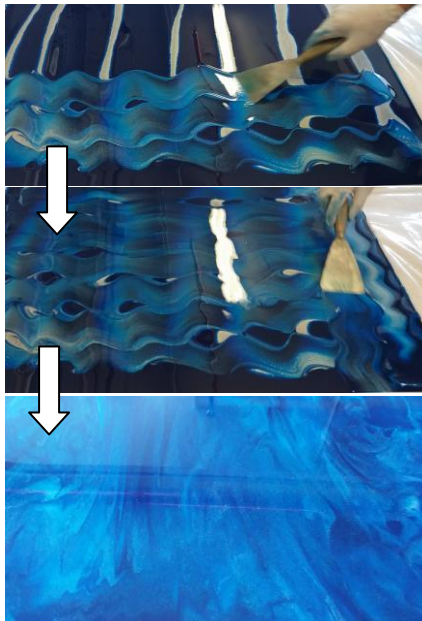


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the substrate) with roller, brush or airless spray. Before applying, mix both components (A&B) thoroughly to the correct predetermined mixing proportion by weight using a low speed electric stirrer for 2-3 minutes. When the substrate contains humidity more than 4% or there is rising moisture the surface should be primed with **Neopox® Primer AY**. Otherwise as a primer it can be applied **Epoxol® Primer SF** (solvent-free epoxy primer) or if the moisture of the substrate is up to 8%, if there is not rising moisture and the substrate temperature is $> +12^{\circ}\text{C}$ the surface should be primed with water-based primer **Acqua® Primer**.

After the primer has dried, any existing imperfections (cracks, holes) should be filled using **Epoxol® Putty** in proportion from 1A:1B to 2A:1B depending on application conditions.

Instructions for use



Application: After primer's drying, **Epoxol® Design base-coat** is applied. Mix the 2 components (3-5 minutes) until a uniform mixture has been achieved. The epoxy floor (base-coat) is applied with a serrated trowel. For avoiding bubbles on the final surface, use a spiked roller when rolling the self-levelling layer, after the use of the serrated trowel. After the application of the base-coat, the 2 components of **Epoxol® Design** are mixed (3-5 minutes) until a uniform mixture has been achieved. **Epoxol® Design** is applied, wet-on-wet, using a watering pot like tool and spread the material with either "S" moves, or random moves. After that, use a straight trowel to spread the metallic material making "S" moves in different directions, so as to create the decorative effect you desire (see the pictures on the left). The final effect depends on the creativity of the applicator.

Indicative consumption: **Epoxol® Design base-coat** 0,7-0,8Kg/m² and **Epoxol® Design** 0,2-0,3Kg/m².

Maintenance: Cleaning the cured system is best done by mopping surface with mild soap and water or a mild detergent. Some cleaners may affect the color of the installed floor. Test each cleaner used in a small area, ensuring no damage occurs.

Notes

- Low temperatures and high humidity during application prolong drying time, while high temperatures decrease it.
- Product application should take place at least 4 weeks after casting the new concrete.
- Due to the paint's nature, its constant & direct exposure to UV-radiation may cause chalking along time.
- Low temperatures and high humidity during application prolong drying time, etc
- Cracks or holes need to be filled with **Epoxol® Putty**.
- The substrate temperature must be at least 3°C above dew point to reduce the risk of condensation or blooming on the floor finish.
- The final effect of the metallic floor depends on the creativity of the applicator.

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- Do not overspread the metallic compound, because the metallic effect will not be intense. It is recommended to spread two times, horizontal and vertical.
- The addition of more metallic compound than the recommended ratio (0,7-0,8Kg/m² base-coat / 0,2-0,3Kg/m² metallic epoxy) will create more intense metallic effect.

Variations

Epoxol[®] Design Winter:

Special version of the product for application in highly humid environments and low temperatures (<12°C and >5°C, relative atmospheric humidity <80%, surface humidity content <4%).

Resistance to temperature (dry loading) from -30°C to +100°C.

Cleaning of tools

Clean all tools and application equipment with solvent **Neotex[®] 1021**.

Stain removal

Use the solvent mentioned above when the stain is still fresh and damp. In case of hardened stains, use mechanical means.

Packing

Sets of 13,5kg (components A&B have fixed weight proportion)

Storage stability

The product is usable for 3 years (+5°C to +45°C) when kept unopened in its original container, protected from frost and direct sunlight.
