

DIAMOND LIQUID GLASS

Two-component transparent epoxy resin

Diamond Liquid glass is a transparent, self-leveling, two-component epoxy resin, free of solvents or water. It is suitable for creating decorative surfaces and objects of high aesthetic value, intended for display or use in indoor spaces. It is applied by pouring onto horizontal surfaces, into suitably shaped small or large molds, as well as on floors, tables, and decorative effect coatings. It enables the encapsulation of colored aggregates, three-dimensional digital prints, photographs, optical fibers, and other decorative elements. It can also be mixed with powdered pigments, such as iron oxides and pearls, as well as glitter. After complete polymerization, it exhibits high resistance to solvents, acids, and other chemicals.

Characteristics-Advantages

- High transparency
- Excellent adhesion
- High mechanical strength
- Resistance to chemicals & solvents
- Self-leveling properties
- Ideal for premium decorative applications



TECHNICAL INFORMATION

Product type	Epoxy resin (A) in combination with polyamine (B)
Density @25°C (A+B)	1,10-1,11 g/ml
Mixing ratio	A:B = 100:53 (100g A to 53g B)
Curing time @25°C, 50% relative humidity	Quantity 300g (A+B) at thickness of 1.5cm cures completely in 2.5-3 hours. Full cure in 6-12 hours. In a thin layer up to 5mm cures completely in 3.5-4 hours. Full cure in 9-16 hours.
Colors	Transparent
VOC (Volatile Organic Compounds)	EU limit value for this product Category A: "j", Type: SB, Two-pack reactive performance coatings for specific end use such as floors: 500g/l (2010). This product contains max 499g/l VOC.

DILUTION



Without dilution

REACTION



2,5-4H Full reaction
24-36H Light use
72H Normal use
7D Final curing

PACKAGING



SET: 400g,
1.5kg, 10kg

Technical Data Sheet

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SUBSTRATE PREPARATION

The surface must be dry, clean and free from dust and greasy materials. Application must take place at an ambient and substrate temperature of 20–25°C and a relative humidity of 50% ±10%.

Floors must be free from rising moisture.

For cement screeds the concrete grade must be at least C20 / 25 with a minimum cement content of 350 kg/m³, moisture content <4% and application must be carried out at least 30 days after construction of the surface.

Before application, it is necessary to provide a suitable frame (mold) in order to avoid material leakage.

DIRECTIONS FOR USE

Application method:

Dilution: Without dilution

Mixing and application: 1. Pour the entire quantity of Component B into Component A from a low height.

2. Mix for 2–3 minutes, using a mechanical stirrer or low-speed drill at very low speed (up to 250 rpm), to avoid air entrapment.

3. Ensure thorough mixing along the sides and bottom of the container, to achieve complete and proper homogenization of the mixture.

4. Allow the mixture to rest for an additional 2–3 minutes.

5. Pour the material from a low height onto the prepared substrate.

6. A pouring thickness of 5–10 mm is recommended, to allow any trapped air bubbles to rise easily to the surface.

7. If bubbles form immediately after pouring, remove them using a heat gun or torch.

8. Working time for minor corrections is approximately 60 minutes.

Coloring: Colored aggregates, oxides, pearls or glitter are added to component A before mixing it with component B. For optimal aesthetic results, it is recommended to use Décor Pearl and Décor Glitter pigments at a dosage of 0.5–5% by weight, which impart a metallic or iridescent appearance to the final product.

Curing Times @25°C, 50% relative humidity:

Quantity 300g (A+B) at a thickness of 1.5cm cures completely in 2.5-3 hours. Full cure in 6-12 hours. In a thin layer up to 5mm cures completely in 3.5-4 hours. Full cure in 9-16 hours. Light use after 24-36 hours while normal use in 72 hours. Final curing 7 days.

General remarks:

- Clean the tools after application with solvent No. 810 and immediately wash them with water and detergent (if necessary). Do not dispose of the liquids from washing into the aquatic environment. Once DIAMOND LIQUID GLASS has dried, it can only be removed by mechanical means or with strong paint strippers..

- The information provided above is indicative and based on laboratory testing and practical experience. Users must verify the product's suitability for their specific application prior to use. The user assumes all responsibility and liability for any consequences arising from the use of this product.

STORAGE

Keep the containers closed in their initial form and in conditions away from frost, sunlight and temperatures below 5°C or above 35°C.

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HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult TETRALUX Safety Data Sheets and follow all local or national safety regulations.

The above technical information is based on the experience and the knowledge of the company. The company guarantees the quality of the product, but bears no responsibility for any damages caused if the product has not been used properly and in accordance with its instructions for use.