



Duroglass

Technical Specifications

Date of Issue: 7/11/2025

Version Number: 2nd

Transparent Self-Leveling Epoxy Resin for Cold Glazing – Ideal for Countertops, Tables, Floors, Statues, Crafts, and Artistic Applications



DUROGLASS is a high-quality, transparent, self-levelling, two-component epoxy resin designed for cold glazing with high durability, suitable for horizontal indoor surfaces. Due to its special composition, DUROGLASS can incorporate colored aggregates, chips (painted, natural, glass, or glitter), pebbles, shells, logos, photographs, wallpapers, stickers, optical fibers, LED strips, etc., creating decorative surfaces of unparalleled aesthetics. It can also be mixed with powdered pigments (glitter) or water-free liquid pigments to create limitless artistic effects.

It is used both as a **protective coating** and for **creating special decorative surfaces with a free-style technique** on floors, tables, countertops, doors, cabinets, and receptions in hotels, offices, exhibitions, nightclubs, bars, and TV studios. Additionally, it is an ideal product for **furniture making**, stools, wooden sinks, bowls, serving trays, small decorative objects, and countless artistic applications such as **3D paintings** with natural elements like leaves, dried or pressed flowers, insects, zeolites, seeds, dried foods (nuts, legumes, pasta), souvenirs, ornaments, jewellery, photographs, coins, and various other materials like wood, metal, stone, ceramics, porcelain, plastic, glass, paper, rubber, fabric, and leather.

It **does not shrink**, offers **excellent transparency**, and has **high resistance to moisture, acids, solvents, chemicals, and temperature changes**. It stands out for its **exceptional mechanical strength, strong adhesion, and bonding ability to any material**. DUROGLASS can be **sanded, milled,**

planed, drilled, turned, cut, and polished.

For increased hardness and scratch resistance, it is recommended to apply a **thin layer of two-component acrylic varnish** (4401-05-10-20-45 for tables and countertops or AQUA PARQUET MEGA TRAFFIC 2K for floors).

- Does not shrink
- High transparency
- Exceptional resistance to moisture, solvents, chemicals, and temperature changes
- Strong adhesion and bonding with all materials
- Outstanding mechanical strength
- Can be tinted
- Can be sanded, milled, planed, drilled, turned, cut, and polished
- **Mixing ratio: 1.75:1 w/w (by weight)**

Application Guidelines for Creating a Free-Style Decorative Surface

Preparation

Surfaces must be **flat, solid, completely dry, and clean** from dust, oils, grease, rust, old paints, or loose materials that could affect adhesion.

Ensure surfaces are **completely dry** for full resin curing.

For floors, mosaics, tiles, and cementitious substrates:

Seal any cracks using a **two-component epoxy injection adhesive**.

For absorbent substrates, **prime with DUREPOX PRIMER 1KW** (water-based epoxy primer).

For non-absorbent substrates, **apply DUROFLOOR EPX PRIMER**.

Since DUROGLASS is **self-levelling**, create a perimeter mold around the surface to **prevent spills**.

If the substrate requires **smoothing**, use ATLAFLOOR LVL 120 self-levelling cement mortar.





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For tables, countertops, doors, and embedding decorative objects:

If using a mold, **apply a release agent** (silicone spray or liquid polyethylene) before pouring the resin to prevent sticking.

Use **glossy melamine, polyethylene, or polypropylene** for molding and **seal the joints with silicone or hot glue** to avoid leaks.

Non-absorbent surfaces or objects can be placed directly into the mold **without priming**.

Absorbent surfaces should be **pre-coated** with **two-component acrylic varnish** (4405-10 or AQUALASUR PLUS) **to seal pores**, preventing bubbles and air entrapment during casting.

Lightweight decorative objects should be secured to prevent floating or shifting until the resin fully cures.

Thinning

No dilution required. **Ready to use.**

Mixing Instructions

Components A (resin) and B (hardener) are pre-measured in a 10.5:6 weight ratio. Gradually add Component B into Component A while stirring slowly by hand for 2-3 minutes to avoid bubbles. Transfer the mixture between containers 2-3 times while stirring each time for complete homogenization.

Stir along the container walls and bottom to fully mix the hardener. Do not use electric drills or mechanical mixers. If using partial quantities, weigh components accurately to maintain the correct ratio. Mix only the amount needed for immediate use, as the mixture hardens quickly (pot life: 20 minutes).

Application

Ensure surfaces are dry and free from rising moisture before casting. As a protective coating: When used as a varnish for floors, mosaics, pebble floors, or surfaces made of wood, metal, stone, ceramics, etc., apply with a roller in an amount sufficient to cover the surface. For thicker applications, apply in multiple thin layers (up to 6mm per layer) to prevent air bubbles. If bubbles appear, use a torch to remove them from small surfaces.

Drying Time

Waiting time between layers: 4 - 6 hours

Full cure: 24 - 48 hours

Polishing possible after 7 days

Drying times depend on **layer thickness and ambient temperature.**

Any imperfections after curing can be sanded and polished.

Coverage

1 m²/kg for a 1mm layer

Color

Transparent. Can be **colored with DUROGLASS COLOR MIX pigments** (available in unlimited shades).

WARNING!: These pigments are highly concentrated—**1-3 drops may be enough for 50g of resin**

Storage

Factory-sealed packaging lasts **at least 12 months** in a **cool, shaded area** (5°C - 40°C).

After use, **seal the container tightly** and store under appropriate conditions

Tool Cleaning

Clean tools and any spills **immediately after use** with **nitro thinner.**

Once thickened, **only removable with Vernilac corrosive.**



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Packaging

Set size 320 gr.	Component A	205 gr.
	Component B	115 gr.
Set size 1 kg.	Component A	640 gr.
	Component B	360 gr.

Safety Instructions

Read the label before use.

For detailed precautions, consult the Safety Data Sheet.

Poison Control Center Tel.: +30 210 77 93 777.



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