

DECO LIQUID GLASS



Liquid glass resin



PROPERTIES

Two-component solvent-free and clear epoxy resin, suitable for creating and protecting a multitude of decorative applications and interior space surfaces. After hardening, a final surface of great clarity is formed, like glass. Classified SR-B2,0-AR0,5-IR4 per EN 13813.

ADVANTAGES

- Exceptional mechanical strength and adhesion
- Resistant to moisture
- Resistant to most chemicals, acids, alkalis, sea or chlorinated water
- Ability to create colored constructs and coatings

APPLICATIONS

DECO LIQUID GLASS is ideal to be applied either as a pouring/casting product or as a coating material in a multitude of substrates, due to its physical shape (liquid glass). The most well-known application of the product relates to the 'encapsulation-encasement' of materials such as

pebbles, shells, sea sand, leaves, flowers, butterflies, legumes, nuts, decorative woods, veneers, photographs, banknotes, coins etc. Another popular application relates to clear or even colored cementitious coatings on microcement. Dozens of highly decorative and easy applications are being showcased on the internet. Those applications will assist the creation of unique designs with our stamp and personal aesthetic footprint.

USE

1. Surface preparation

All application surfaces must be dry and free of dust, fats etc. Cementitious surfaces must be flat, sound, free of loose sections, dust, fats, oils and they must be completely dry. The humidity of the substrate should not exceed 5%, while the relative humidity in the application area should be less than 65%.

2. Application

Empty the contents of container B into container A and stir with a low-rpm drill for 2-3 minutes until

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the complete homogenization of the mixture. Allow the mixture to stand for a few minutes before applying. Alternatively, mix the two components with a trowel, with slow, circular motions, for about 4-5 minutes. In both cases, when mixing the two components, great care should be taken to ensure that the mixing is done calmly so that air does not become trapped in its mass and bubbles are created. Also, mixing should be done both on the walls as well as at the bottom of the container, in order for the hardener to be uniformly distributed and to homogenize properly. After the application, any air bubbles created should burst immediately using a heat gun or any other hot air device.

Application – Coloration & style creation with DECO LIQUID GLASS

Use DECO LIQUID GLASS to create colored constructs or coatings with:

- The measuring system for shade rendering DUROCOLOR, available in 20ml syringe packaging, creating 120 colors.
- Mixing the decorative ultrafine metallic pigments LUSSO D'ORO, available in gold, silver, copper, creating irises and multicolor shades. For the coloring of the entire construction or of the coating (mainly for floor applications), **immediately after mixing the two components**, add one or more of the pigments in syringe packaging DUROCOLOR of your choice and create separate styles, depending on the aesthetic necessity of the application. Indicatively, for 1m² liquid glass 2mm thick, you will need about a 20ml DUROCOLOR syringe.

For coloring the entire construct or the coating: add a small amount of the pigment of choice into component A and mix until the pigment has completely homogenized. Add component B (hardener) and mix thoroughly. For coloring the top or the in-between coat (to create a background effect), follow the above coloring procedure but use a smaller amount of resin and pigment(s), always depending on the application. Please keep in mind that the pigment amount must be very small so that liquid glass archives a different hue, but it also remains clear.

Application as pouring product, brushable or floor coating product: Application in molds:

Create the mold using flexible materials such as nylon sheets or polyethylene containers. Create a ring that is of equal thickness all around by placing a small container inside a larger one. Add pebbles, small shells or anything else imagination might demand, and create numerous unique pots for various spaces. Special forms and molds in artistic, but also in other original shapes are available on the market. They are reusable and involve the manufacture of jewelry and other constructs in various patterns, designs, and dimensions.

In metal molds (e.g. wine barrel hoops bands or angled frames): after spraying them with the liquid silicone spray, SILCONE SPRAY of DUROSTICK on a flat nylon surface, various materials can be incorporated e.g. pebbles, clams, nuts and everything else, with only limit one's imagination. In this way, we create tops 3 to 4cm thick, for tables with exceptional aesthetic value. Apply the product in successive coats (3-4) to prevent air bubbles from being trapped within its mass.

Stained glass or imitation type construction: On glass, plexiglass or thick plastic, but also in plywood or sheet metal sheet mold, you can choose the colors choice and create unique constructs. Also, everyday use glassware and items such as candlesticks, lanterns, lamps, light fixtures can be renewed by coating them with colored liquid glass, obtaining a stained glass look. And in this case the internet will be a valuable aid and guide and provide you with many original ideas. Remember that your creations will "shine" even more if you place them at a point where a candle or a dim light fixture can be placed behind them.

With the addition of LUSSO D'ORO pigments, available in practical 70ml vials, into component A before mixing it with component B, liquid glass DECO LIQUID GLASS is also applied to:

Large or small size statues (made) of plaster, cement or polyester, the face of which is converted into metal, e.g. gold or silver.

Decorative plaster crown moldings, offering proposals of classic aesthetics in interiors spaces.

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Cement or ceramic pots and planters and other decorative items are transformed by completely changing their appearance and value.

Decorative floors: On a sufficiently cured cement substrate (28 days after pouring), and after having the surface protected from moisture by applying the flexible and brushable cement mortar D-1 FLEX of DUROSTICK (available in white or gray, encase any material of aesthetic choice and value, such as fiber optics, LED lighting strips etc., giving life to the application surface. Excellent decoration option for swimming pools or fountains. It is also suitable to be applied as a varnish for decoration and protection of surfaces made of wood, metal, clay, ceramics, stone, concrete, etc., provided they are clean and completely dry.

In the styling system 3D COLLECTION SYSTEM: Great for protecting styles on floors and walls, especially on large surfaces (p. 398).

USEFUL TIPS

- Not suitable for sunlight exposure (becomes cloudy).
- Casting on molds should be done in a coat of 10-15mm thick. If done in two or more coats, each additional coat should be poured once the former has started to set.
- For the best use of all molds, it is deemed necessary to spray them with the SILICONE SPRAY of DUROSTICK.
- After curing, any mold imperfections can be sanded down with common sandpaper and polished until it is glass-like.
- When applying as varnish or coating, do so using a roller, brush or plastic spatula, depending on the surface.
- For floor applications, the coat thickness should not be less than 1.5-2mm, and the maximum application thickness per coat should not exceed 6mm. For thicker coats, apply additional coats.
- If the product is used as a varnish or floor coating and there is a need to apply a second coat, it should be applied within the drying time of the first coat. Otherwise, the first coat must be sanded enough so as to remove the gloss finish, clean thoroughly all the dust and grease to ensure good adhesion between the two coats.

- On continuous floor surfaces, there is no need to create expansion joints.
- Only mix as much as you can use because the mixture starts to harden quickly.
- If you are not going to use the entire package, weigh accurately the two components before mixing them together. You will need glasses or containers, as well as a disposable stirrer. For weighing, use a precision scale or syringes (for even smaller quantities).
- The mixing ratio of component A to component B (hardener) is 100/55.
- Until polymerization, the product should not be exposed to moisture and dust.

NOTES

- Epoxy systems are sensitive to ambient temperature and humidity, until their final cure. Pot life is reduced with increased ambient temperatures. Dull or discolored spots appear on the surface and curing time increases at high humidity conditions
- After mixing the two components, the mixture temperature increases.
- After hardening, the product is harmless to health and the environment.

CLEANING

Clean all tools with THINNER 201 of DUROSTICK, immediately after use.

CONSUMPTION

As pouring product: 1kg/m²/mm thick coat. Indicatively, for a tabletop with a diameter of 70cm and a thickness of 4cm, the necessary amount of DECO LIQUID GLASS is about 15kg.

As coating or varnish: Approximately 200gr/m²/coat, on properly prepared surfaces, and always depending on their absorbency.

STORAGE

Store in tightly sealed containers dry and shaded places, for at least 12 months from production date.

SAFETY DIRECTIONS

The product is classified as irritant. It is recommended to keep away from the reach of children. Before use, refer to the cautions on the

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product packaging or the Material Safety Data Sheet.

PACKAGING

Carton box with 12 pcs of 375gr each one

(A: 240gr, B: 135gr)

3kg Container (A: 1,930gr, B: 1,070gr)

5kg Container (A: 3,217gr, B: 1,783gr)

TECHNICAL SPECIFICATIONS	
Chemical base	Two-component epoxy resin without solvents
Shade (A+B)	Transparent
Mixture density	1.05±0.04kg/lt
Mixing ratio A:B	100:55 by weight
Pot life	40-50 minutes at +20°C
Application temperature	From +10°C to +35°C
Initial cure	4-6 hours at 20°C
Full cure	4-7 days, depending on the coat thickness, the ambient temperature and humidity
V.O.C. (Volatile Organic Compounds): Limit value of maximum content of V.O.C. per EC (Directive 2004/42 / EC) for this product (category A/j: 'Two-pack performance coatings', type SB): 500gr/lt (2010). The ready to use product contains maximum 0gr/lt V.O.C.	

DUROSTICK S.A.

MANUFACTURING OF ADHESIVES, PAINTS & MORTARS

ATHENS: ASPROPYRGOS, ATTICA, GR: 193 00, Tel:

+30 211 60 03 500-599, +30 210 55 16 500, +30 210 55

98 350, Fax: +30 210 55 99 612

THESSALONIK: INDUSTRIAL PARK-SINDOS, S.B. 44,

STREET, DA 0, GR: 570 22, Tel: +30 2310 795 797, +30

2310 797 365, Fax: +30 2310 797 367

E-mail: info@durostick.com

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