

# QUARTZ DECO EPOXY



## Binding epoxy resin for stone carpets



### ■ PROPERTIES

High quality and clear, two-component epoxy resin, without solvents. Suitable as a binder when added to the quartz aggregates QUARTZ DECO. Once cured, it creates a finish product with solid mass that is distinguished by its powerful adhesion to all sound substrates with tensile strength greater than concrete.

### ■ ADVANTAGES

- Excellent mechanical strength and long-lasting
- Resistance to permanent immersion in chlorinated water
- Resistance to most chemicals and seawater
- Non-slip final surface
- Easily cleaned with normal household cleaners, without being affected by them.

### ■ APPLICATIONS

When mixing QUARTZ DECO EPOXY with the quartz aggregates QUARTZ DECO in grain sizes from 0.1-2mm, is ideal for the creation of non-slip quartz floors of high aesthetics that withstand any abrasion.

Suitable for interior floor surfaces, but also bathrooms and showers.

The mixture of QUARTZ DECO EPOXY resin with the QUARTZ DECO aggregates can also be applied to walls, interior staircases, and swimming pools, as long as the surfaces are first coated with the epoxy-based EPOXY PUTTY.

### ■ USE

#### 1. Surface preparation

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

The application of the mixture should only be done on properly prepared surfaces. If applied to floor surfaces that are not level or flat and require to be leveled in thickness between 1-2cm thick, it is recommended to use the flexible and fast setting cementitious adhesive DUROFAST FLEX (C2TE/S1) of DUROSTICK. If the levelling required is of higher

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thicknesses, from 2-5cm thick for example, use the fiber-reinforced cement screed D-6 of DUROSTICK, after priming the substrate with the acrylic emulsion D-20 of DUROSTICK. Pour the cement screed as long as the emulsion additive is still fresh (wet) in order for it to function as bonding bridge.

The above surfaces, as well as surfaces lined with tiles, marbles, mosaics, etc., are primed using the epoxy primer WATERPROOF EPOXY PRIMER AQUA. The application of the mixture follows up to 12 hours after the application of the primer.

To the proper surface preparation before the application in swimming pools, contact the Technical Support Team of DUROSTICK.

### 2. Application

Empty the contents of container B into container A. Mix with a low-rpm electric mixer for 2-3 minutes until the mixture is homogenized. Then, in a suitable container, empty the homogenized QUARTZ DECO EPOXY resin mixture and add the quartz aggregates QUARTZ DECO. Mix until completely homogenized. In any case, it must be ensured that the aggregates are completely covered by the binder resin. The mixing ratio of QUARTZ DECO EPOXY with quartz aggregates QUARTZ DECO for grain sizes below 2mm the mixing ratio is 12.5/100 by weight.

Apply the mixture (QUARTZ DECO EPOXY + QUARTZ DECO) using a steel trowel with rounded edges. Press the mixture onto the application surface, taking care not to leave any gaps and/or any excess product. After completing the interior floor application and once the surface is walkable (approximately 48 hours later) and clean of dust, the option of applying the two-component epoxy varnish with gloss finish DECOFIN EPOXY SF is available. Its consumption is approximately 300gr/m<sup>2</sup>.

The varnish application creates a flat surface that is easy to clean, and at the same time highlights the natural beauty of the QUARTZ DECO aggregates. Minimum recommended application thickness for stone carpets indoors: 6mm for grain sizes from 0.1-2mm.

### ■ USEFUL TIPS - NOTES

- When the application is on exterior floor surfaces or swimming pools, first waterproof the substrate using D-1 FLEX of DUROSTICK, the flexible waterproofing mortar, available in white or gray.
- Swimming pools and fountains are filled with water, at least 7 days after the application completion of the product. For additional protection against chalking, apply the two-component epoxy gloss varnish DECOFIN EPOXY SF of DUROSTICK. The same varnish is necessary to protect applications on showers and baths.
- After all exterior applications, protect the applied product from intense sunlight, rain, and frost for up to 72 hours.
- Low temperatures slow down the polymerization of the mixture, while increased temperatures speed it up.
- Until full cure, the product should not be exposed to moisture and dust.
- All expansion joints of the substrate must be followed and transferred through.
- If you are not going to use the entire container of QUARTZ DECO EPOXY, weigh precisely and accurately the two components before mixing them. The mixing ratio of component A to component B (hardener) is 100/55.
- The mixture (QUARTZ DECO EPOXY + QUARTZ DECO) cannot be stored for future use, even if the storage container seals airtight.
- It is recommended to choose quartz aggregates QUARTZ DECO from the same production batch, to ensure a uniform aesthetic result.
- DUROSTICK also has available a mixing bucket with a capacity of 32lt, as well as stainless steel trowels, suitable for the application.
- When mixing the bonding resin with the quartz aggregates QUARTZ DECO with grain size less than 2mm, it is recommended to wear protective goggles, clothing, and gloves.
- Professional application is highly recommended.

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To facilitate the smoothing of the finish surface when pressing with the application trowel, use the biodegradable cleaner BIOCLEAN INDUSTRIAL of DUROSTICK. Before application, spray the trowel with the cleaner. Repeat, when the trowel starts to stick on the fresh surface during application.

### ■ CLEANING

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

### ■ MIXING RATIO - CONSUMPTION

Depending on the coating thickness of the product, the grain size and the shape of the quartz aggregates QUARTZ DECO.

A general rule of thumb for the user is that each aggregate bag mixes with an entire resin container.

QUARTZ DECO Grain size	Mixing ratio with QUARTZ DECO EPOXY
0.1-2mm	12.5/100

### ■ STORAGE

Store in tightly closed containers, in dry and shaded places, for 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 product packaging or the Safety Data Sheet..

### ■ PACKAGING

2.5kg container (A: 1.600gr, B: 900gr)

## TECHNICAL SPECIFICATIONS

■ <b>Chemical base</b>	Two-component epoxy resin without solvents
■ <b>Color (A+B)</b>	Transparent
■ <b>Bulk density</b>	1.05±0.04kg/ltr
■ <b>Mixing ratio A:B</b>	100:55 by weight
■ <b>Pot life</b>	40-50 minutes at +20°C
■ <b>Application temperature</b>	From +10°C to +35°C
■ <b>Initial strength</b>	4-6 hours στους 20°C
■ <b>Full cure</b>	4-7 days, days, depending on the coating thickness of the product, the temperature, and the humidity of the environment

### V.O.C. (Volatile Organic Compounds):

Limit value of maximum content of V.O.C. per EU (Directive 2004/42/CE) for this product (category A/j; 'Two-pack performance coatings', type SB): 500gr/ltr (2010). The ready to use product contains maximum 0gr/ltr 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

THESSALONIKI: INDUSTRIAL PARK-SINDOS, S.B. 44,  
STREET, DA 10, GR: 570 22,  
Tel: +30 2310 795 797, +30 2310 797 365,  
Fax: +30 2310 797 367

Email: [info@durostick.com](mailto:info@durostick.com)

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