

# QUARTZ DECO EPOXY



Binding epoxy resin for quartz floors



## PROPERTIES

High quality, two-component epoxy resin that is solvent-free. 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 for 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
- Resistance when applied to exterior surfaces and temperature variations
- Zero water absorption.

## APPLICATIONS

The QUARTZ DECO EPOXY with its mixture with the quartz aggregates QUARTZ DECO in

grain sizes from 0.1- 8mm, is ideal for the creation of non-slip quartz floors of high aesthetics that withstand any abrasion caused by the foot traffic and vehicles.

The mixture of QUARTZ DECO EPOXY resin with the quartz aggregates QUARTZ DECO, can be applied to walls, stairs and swimming pools, provided that the surfaces are coated with the epoxy putty EPOXY PUTTY, especially in the grain sizes above 2mm.

## USE

### 1. Surface preparation

The substrate must be structurally adequate, flat and level, free from loose sections, dust, grease, oils and absolutely dry. The moisture content of the substrate should not exceed 5%, and the relative humidity in the application area must be less than 65%. Apply the mixture on properly prepared surfaces only. If applied on 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

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(C2TE/ S1) of DUROSTICK. If the leveling required is of larger thicknesses, from 2-5 cm thick for example, use the fiber reinforced cement screed D-6 of DUROSTICK, after priming with the acrylic emulsion additive 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. Smooth and non-absorbent floor, wall or ceiling surfaces are properly prepared using DS-290 quartz primer of DUROSTICK.

### 2. Application

Empty the contents of container B into container A. Mix with a low-rpm drill 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. Stir until completely homogenized. The mixing ratio of QUARTZ DECO EPOXY with quartz aggregates QUARTZ DECO for grain sizes exceeding 2mm is 10/100, while 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 application and once the surface is walkable and clean from any dust, (after 48 hours approximately), apply one of the three DUROSTICK varnishes, as is. Choose between the two-component aliphatic polyurea varnish in gloss finish WATERPROOF 400, the two-component varnish with matte finish DECOFIN POLYURETHANE or the satin QUARTZ DECO VARNISH GEL. Apply either of them to create a strong protective film with strong resistance to UV radiation and stresses, especially when working on exterior surfaces. **Recommended application thickness for quartz floors/stone carpets:** Up to 3mm for grain sizes between 0.1- 2mm, up to 5mm for grain sizes between 2-4mm and up to 10mm for grain sizes between 4-8mm.

### 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 DECROFIN EPOXY SF of DUROSTICK. The same varnish is necessary to protect applications on showers and baths.
- All expansion joints of the substrate must be followed and transferred through
- 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.
- 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.

### CLEANING

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

### MIXING RATIO - CONSUMPTION

Depending on the coating thickness of the mixture and the grain size of the aggregates

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QUARTZ DECO	MIXING RATIO WITH QUARTZ DECO EPOXY	MIXTURE CONSUPTION
< 2mm	12,5/100	4-8kg/m <sup>2</sup>
> 2mm	10/100	7-13kg/m <sup>2</sup>

## STORAGE

Store in tightly closed containers, in 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 product packaging or the Material 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 of mixture</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>Set time</b>	4-6 hours at +20°C
<b>Full cure</b>	4-7 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 EC (Directive 2004/42 / EC) 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.

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