



## PROPERTIES

High quality and clear, solvent-free, two component epoxy resin. Use as binding additive, with DURABINDER aggregates. Once cured, it creates a finish product with solid mass that is distinguished for its excellent adhesion to all sound substrates, with tensile strength greater than concrete.

## ADVANTAGES

- Excellent mechanical strength and long service life
- 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
- Highlights the natural beauty and colors of the quartz aggregates DURABINDER.

## APPLICATIONS

DURABINDER, when mixed with DURABINDER aggregates in grain sizes between 0.7-8 mm, is ideal for the creation of slip resistant stone carpets with an exceptional aesthetic value, that can also withstand any abrasion created by foot and vehicle traffic.

## TECHNICAL SPECIFICATIONS

Chemical base	Two component epoxy resin without solvents
Color (A+B)	Transparent
Bulk density of mixture	1.05±0.04kg/lit
Mixing ratio A:B	100:56 by weight
Pot life	40-50 minutes at +20°C
Application temperature	From +10°C to +35°C
Set time	4-6 hours at 20°C
Full cure	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 EU (Directive 2004/42/EC) for this product (category A/j: 'Two-pack performance coatings', Type SB): 500gr/lit (2010). The ready to use product contains maximum 0gr/lit V.O.C.

## MIXING RATIO - CONSUMPTION

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

For grain sizes exceeding 2 mm, the consumption of the mixture is 7-13kg/m<sup>2</sup>, while for grain sizes less than 2 mm, the consumption of the mixture is 3-5kg/m<sup>2</sup>.

Recommended application thickness: Up to 3mm for grain sizes between 1-2 mm thick, up to 5mm for grain sizes between 2-4 mm thick, and up to 10mm for grain sizes between 4-8 mm thick.



DURABINDER GRAIN SIZE	MIXING RATIO WITH DURABINDER	MIXTURE CONSUMPTION
< 2mm	12.5/100	3-5kg/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

15 KG SET

7,5 KG SET

### USE

#### 1. Surface preparation

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

The application of the mixture should be done only on properly prepared surfaces.

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 DURABOND (C2TE/S1) of DURABOND. If the leveling required is of higher thicknesses, from 2-5cm thick for example, use the fiber-reinforced cement screed D-6 of DURABOND, after priming with the acrylic emulsion additive D-20 of DURABOND. Pour the cement screed as long as the emulsion additive is still fresh (wet) in order for it to function as bonding bridge. Smooth or non-absorbent surfaces, are properly prepared using the quartz primer DS-290 of DURABOND.

#### 2. Application

Empty the content 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 size container, empty the homogenized DURABINDER resin mixture and add the DURABINDER aggregates. Mix until completely homogenized. The mixing ratio of DURABINDER with DURABINDER aggregates 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 (DURABINDER + QUARTZ DECO) using a metal 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 at least 24 hours), apply one of the three DURABOND varnishes, as is. Choose between DURAVARNISH, one component solvent based acrylic varnish with gloss finish, DURAPURE RESIN 2K, two component polyurea varnish (satin or gloss finish) or PURE RESIN 2K, two component varnish with matte finish. Apply either of them to create a strong protective film with strong resistance to UV radiation and stresses, especially on exterior surfaces.

Recommended application thickness for stone carpets: Up to 3mm for grain sizes between 0.7-2mm, up to 5mm for grain sizes between 2-4mm and up to 10mm for grain sizes between 4-8mm.

#### HELPFUL TIPS - NOTES

- When the application is on exterior floor surfaces or swimming pools, first waterproof the substrate using D-1 FLEX of DURABOND, the flexible waterproofing mortar, available in white or gray color.
- Swimming pools and fountains are filled with water, at least 7 days after the application completion. DURAPURE RESIN 2K, two component polyurea varnish is applied for additional protection from chalking.
- 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 curing of the mixture, while increased temperatures speed it up.
- Until its full curing, the product should not be exposed to moisture and dust.
- If you are not going to use the entire container of DURABINDER, weigh precisely and accurately the two components before mixing them. The mixing ratio of component A to component B (hardener) is 100/56.
- The mixture (DURABINDER + QUARTZ AGGREGATE) cannot be stored for future use, even if the storage container seals airtight.
- When choosing DURABINDER aggregates, it is recommended to select from the same production batch to ensure a uniform aesthetic result.
- DURABOND also has available for purchase a 32lt mixing container, as well as specialty stainless steel trowels, suitable for these types of applications.
- When mixing the binding resin with DURABINDER aggregates, with grain sizes less than 2mm, it is suggested to wear protective clothing, gloves and safety glasses.
- After full hardening, the product is harmless to health and to the environment.

#### CLEANING

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