

QUARTZ DECO PU



Binding polyurethane resin for stone carpets



■ PROPERTIES

High quality, two-component polyurethane-based resin. Suitable as a binder, when added to the quartz aggregates QUARTZ DECO. Once cured, it creates a finish product with solid mass that is flexible.

■ ADVANTAGES

- Powerful adhesion to sound substrates.
- Exceptional workability and ease of application.
- Very good resistance to mechanical and chemical wear.
- Resistant to UV radiation.
- Highly durable against abrasion.
- Highly durable to exterior applications and temperature variations.
- Yields a slip-resistant finish surface.
- Easily cleaned with standard household cleaners, without being affected by them.

■ APPLICATIONS

The mixture of the resin QUARTZ DECO PU with the QUARTZ DECO aggregates in grain sizes of 0.1-8mm, 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.

The mixture of the resin QUARTZ DECO PU with the QUARTZ DECO aggregates in grain sizes of up to 2mm, can also be applied to walls and stairs, provided that the surfaces are coated (primed) with the two-component paste EPOXY PUTTY. Use it in new construction, but also in renovation projects, as well as any residential and commercial spaces alike.

The technical specifications and directions of use contained in this technical brochure are the results of the knowledge and experience of the company's research and development department, as well as from the real-life applications of the product. The recommendations and suggestions regarding the use of the products are made without guarantee since the respective conditions during their application are beyond the control of the company. For this reason, it is the user's responsibility to make sure that the product is suitable for the intended application as well as the application conditions of the project.

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■ USE

1. Surface preparation

The careful preparation of the substrate is crucial for achieving the exceptional final results polyurethane systems are capable of yielding. 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 DUROFAST FLEX (C2TE/S1) of DUROSTICK. If the levelling required is of higher 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. For exterior applications, the substrate must be waterproofed beforehand using the cementitious brushable waterproofer D-1 or D-1 FLEX of DUROSTICK.

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.

2. Application

Empty the content of container B into container A. Mix with a low-rpm electric drill for approximately 2 minutes, until the mixture is homogenized. Then, in a suitable size container, empty the homogenized QUARTZ DECO PU resin mixture and add one bag of the QUARTZ DECO aggregates. Mix until completely homogenized. In any case, the complete coverage of the aggregates with the binding resin must be ensured. Apply the mixture (QUARTZ DECO PU + 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.

Minimum recommended thickness of quartz aggregates on floor applications: 6mm for grain sizes from 0.1-2mm, 8mm for grain sizes from 2-4mm and 10mm for grain sizes from 4-8mm.

■ USEFUL TIP

To facilitate the application and for the trowel to slide over the aggregates easily, the use of the biodegradable BIOCLEAR INDUSTRIAL cleaner of DUROSTICK is highly recommended. Before application, spray the trowel with the cleaner. Repeat when the trowel begins to 'stick' and drags the aggregates around during application.

■ NOTES

- Do not apply if there is a chance of rain or frost within the next 72 hours.
- Surfaces and substrates must not be cleaned with water before application and must be completely dry during application.
- After all exterior applications, protect the applied product from intense sunlight, rain and frost for up to 72 hours.
- Low and/or high temperatures change the curing time of the mixture.
- The mixture must not be exposed to moisture and dust until it is completely cured.
- All expansion joints of the substrate must be followed and transferred through.
- For application in swimming pools, baths, and showers, the use of the epoxy binding resin QUARTZ DECO EPOXY of DUROSTICK is recommended.
- If the entire container of QUARTZ DECO PU will not be used, weigh precisely and accurately the two components before mixing them. The mixing ratio of component A to component B (hardener) is 100/60 by weight.
- The mixture (QUARTZ DECO PU + QUARTZ DECO) cannot be stored for future use, even if the storage container seals airtight.
- When choosing QUARTZ DECO aggregates, it is recommended to select from the same production batch to ensure a uniform aesthetic result.

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- DUROSTICK 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 QUARTZ DECO aggregates, with grain sizes less than 2mm, it is recommended to wear protective clothing, gloves, and safety goggles.
- The application by a professional is highly recommended.

■ 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.

QUARTZ DECO Grain size	Mixing ratio with QUARTZ DECO PU
0.1-2mm	12.5/100
2-8mm	10/100

■ STORAGE

Store in spaces protected from sun and frost for up to 12 months from production date, and as long as it remains in its originally hermetically sealed package. With moisture Component B is likely to polymerize within its container.

■ SAFETY DIRECTIONS

The product is classified as flammable and irritating.

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: 1.560kg, B: 940kg)

TECHNICAL SPECIFICATIONS

■ Chemical base	Two-component aliphatic polyurethane
■ Color (A+B)	Transparent
■ Gloss	Gloss
■ Mixture density	1.05±0.05kg/lit
■ Mixing ratio A:B	100:60 by weight
■ Pot life	35-40 minutes at +20°C
■ Application temperature	From +10°C up to +35°C
■ Initial strengths	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 499gr/lit V.O.C.

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