

QUARTZ DECO HYBRID



Hybrid binding resin for the creation of granite-based plasters for walls



■ PROPERTIES

High quality, one component, water soluble hybrid resin (polyurethane-acrylic), with a clear finish. Use as a binding additive with QUARTZ DECO, the quartz aggregates with grain size less than 2mm. Mix them to create an easy-to-use, thixotropic paste with strong adhesion to sound substrates. The finished/top coat surface (after final cure of the mixture), is durable against moisture and frost. It also presents excellent abrasion resistance and durability against mechanical stresses.

■ APPLICATIONS

The QUARTZ DECO HYBRID, when mixed with QUARTZ DECO aggregates in grain sizes between 0.1-2mm, is ideal for interior and exterior wall and ceiling applications, for the creation of granite-based plasters of high aesthetics and resistance to moisture and UV radiation.

Suitable as a top coat for thermal insulation systems of buildings, and every type of renovation over marble and gypsum-based plasters, columns, concrete walls, etc. Also, suitable as decorative coating in bathrooms, window sills, window frames etc.

■ USE

1. Surface preparation

All application surfaces must be sound, free from loose sections, dust, grease, oils and absolutely dry. The moisture content of the substrate should not exceed 5%. The application of the mixture must be done only on properly prepared surfaces.

For new plaster surfaces, at least 15 days must have passed from their completion.

Marble-based plaster surfaces, that are deteriorated or detached, must first be repaired using the fast setting repair plaster D-32 or the flexible multipurpose cementitious mortar MEGAFIX.

Concrete surfaces: concrete sections affected by carbonation must be removed and then repaired with the rapid set repair mortar DS-245 POWER MORTAR RAPID or the rapid set repair mortar with corrosion inhibitor DS-247 of DUROSTICK.

Absorbent surfaces that are not subjected to repairs are simply primed using the micromolar stabilizer AQUAFIX of DUROSTICK, undiluted.

All repaired surfaces must be primed with AQUAFIX, at least 3 days after their construction is completed.

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2. Application

In a suitable size container, empty the QUARTZ DECO HYBRID resin and the QUARTZ DECO aggregates. Mix with a low rpm electric mixer with a plastic mixing attachment until completely homogenized. In any case, it must be ensured that the aggregates are completely covered by the binder resin.

The mixing ratio of the resin to the quartz aggregates (grain size between 0.1-2mm) is 33/100 by weight. The mixture is applied with a steel trowel with rounded edges, pressing the mixture at an angle of 15° for easy spreading. Work the mixture from the bottom up or by applying in the same direction without leaving any gaps or leftovers. The surface is smoothed down to the maximum grain size, while the mixture is still fresh. Leftovers of the mixture that have fallen onto the floor during the application may be reused while they are still fresh, but only if no foreign bodies were stuck to it. It is recommended to mix frequently the mixture during the application.

Recommended application thickness: Up to 3mm for grain sizes between 0.1-2mm.

■ USEFUL TIPS - NOTES

- When choosing QUARTZ DECO aggregates, it is recommended to select from the same production batch to ensure a uniform aesthetic result.
- Protect the fresh surface from direct exposure to the sun, rain and strong wind for approximately 24 hours from the application completion.
- Low temperatures and/or high moisture levels will increase the curing time of the mixture.
- To avoid the appearance of seams do not stop the application process on uniformed surfaces.
- During the mixing process between the quartz aggregates and the QUARTZ DECO HYBRID resin, the color(s) differs from the final surface color(s). The final color is formed after 3-5 hours.
- After the application is completed on surfaces with increased moisture content, and the granite plaster has dried thoroughly, apply the two-component polyurethane varnish DECOFIN POLYURETHANE or the acrylic varnish VISTA of DUROSTICK.
- For application on substrates suspected of being affected by rising damp, consult the Technical Support Team of DUROSTICK.

- A 6.6kg container of the resin is suitable for a 20kg bag of QUARTZ DECO aggregates.

- DUROSTICK also has a mixing container with a capacity of 32lt, as well as stainless steel trowels suitable for the application. Avoid mixing the ingredients in a metal container.

- It is recommended to wear protective goggles, clothing, and gloves when mixing the binder resin with QUARTZ DECO quartz aggregates.

- The mixture can be used up to 10 days after its homogenization if stored in a tightly closed container.

■ CLEANING

Clean all tools with water and detergent solution immediately after use.

■ CONSUMPTION

Depending on the grain size of QUARTZ DECO aggregates, on properly prepared surfaces. The consumption of the mixture ranges from 5-6kg/m².

■ STORAGE

Store in places protected from the sun and frost, for 18 months from production date. The product can be kept until its next use if it is properly sealed.

■ SAFETY DIRECTIONS

The product needs no hazard labeling under current European and national legislation. However, it is recommended to keep away from the reach of children. If swallowed, seek immediate medical advice and show the container or label.

■ PACKAGING

6.6kg container

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TECHNICAL SPECIFICATIONS (Measurement conditions 23°C and 50% R.H.)	
■ Form - Color	Paste - White, becomes clear when dry
■ Bulk density	1.00±0.05kg/lt
■ Application temperature	From +5°C to +35°C
■ Touch dry	12 hours
■ Full cure	Approximately 3 days, depending on the coating thickness of the mixture, the temperature, and the humidity of the environment
■ Does not contain organic solvents	

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/c: 'Coatings for exterior walls of mineral substrates', type W): 40gr/l (2010). The ready to use product (A+B mixture) contains maximum 39gr/l V.O.C.

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The technical specifications and directions of use contained in this technical data sheet 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.