

QUARTZ DECO



Quartz aggregates of various grain sizes



PROPERTIES

QUARTZ DECO are natural quartz aggregates, in various grain sizes (0.1mm-8mm), colors, and shapes, suitable for applications in decorative coatings and various constructs. The aggregates have been industrially cleaned and dried; they have specifically graded grain size and high hardness of the Mohs scale 6-7. They are chemically inert, with zero water absorption, unaffected by the chemical properties of all types of binding materials. Distinguished for their high abrasion resistance, they do not degrade and they do not discolor over time or adverse weather conditions, as limestone aggregates do. The morphology of their grain makes them suitable and fully compatible for mixing with binding resins, such as QUARTZ DECO EPOXY resin or QUARTZ DECO HYBRID resin of DUROSTICK.

APPLICATIONS

Currently, there are many completed QUARTZ DECO projects in a variety of architectural and decorative applications on floors, stairs and walls. Available in selected colors taken from the

sand of the sea, as well as combinations of black and white.

By mixing them, (available grain sizes between 0.1mm to 8mm), with the epoxy resin QUARTZ DECO EPOXY, they are ideal for the creation of a slip resistant quartz floors/stone carpets of high aesthetic value that can also withstand abrasion and wear caused by pedestrian and vehicle traffic.

With the same resin, they can be applied to walls, stairs and swimming pools, provided that the surfaces are previously coated with EPOXY PUTTY epoxy putty, especially in particle sizes over 2mm.

By mixing them, (available grain sizes between 0.1mm to 8mm), with the hybrid resin QUARTZ DECO HYBRID, they are suitable for interior and exterior wall and ceiling surfaces and for the creation of granite-based plasters of exceptional aesthetic value and durability.

The application method, the consumption, and the selection of the appropriate grain size(s) **or even the combination of different grain sizes**, differ, depending on the aesthetic requirements,

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the use and the location of the application surface.

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%. 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 leveling required is in thicknesses greater than 2-5cm, 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

The mixing ratio of QUARTZ DECO aggregates with the solvent free QUARTZ DECO EPOXY resin or with the hybrid resin QUARTZ DECO HYBRID depends on the selected grain size.

For floor applications: In a suitable size container, empty the homogenized QUARTZ DECO EPOXY resin mixture, (follow the mixing instructions of the epoxy resin as described on its packaging), and add the quartz aggregates QUARTZ DECO. Stir until completely homogenized. The mixing ratio of QUARTZ DECO EPOXY with QUARTZ DECO quartz 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 (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 ap-

proximately), apply one of the DUROSTICK varnishes, as is. Choose between two-component polyurea varnish in gloss finish WATERPROOF 400 or the two-component varnish with matte finish DECOFIN POLYURETHANE. 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.

For wall and ceiling applications: In a suitable size container, empty the QUARTZ DECO HYBRID resin mixture, (follow the mixing instructions of the epoxy resin as described on its packaging), and add the quartz aggregates QUARTZ DECO. Stir until completely homogenized. The mixing ratio of QUARTZ DECO HYBRID with QUARTZ DECO quartz aggregates for grain sizes below 2mm is 33/100 by weight. Apply the mixture (QUARTZ DECO HYBRID + QUARTZ DECO) using a metal trowel with rounded edges. Press the mixture onto the surface at a 15° angle for easier application.

Apply the mixture from the bottom to the top or by working in the same direction, making sure not to leave any gaps and/or any excess product.

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

As an alternative to the protection varnishes and after the completion of the application of the resin and quartz aggregates mixture (QUARTZ DECO + QUARTZ DECO EPOXY) on floors and (QUARTZ DECO+QUARTZ DECO HYBRID) for walls it is recommended to apply the decorative and protective varnish in gel form QUARTZ DECO VARNISH GEL. Apply it once the resin and aggregate mixture is fully cured, approximately after 48 hours for floors and 3-5 days for walls. Protects showcases, and highlights the natural beauty of QUARTZ DECO aggregates and facilitates their cleaning.

USEFUL TIPS - NOTES

- The selection and use of QUARTZ DECO aggregates with grain size exceeding 2mm on walls and ceilings is not recommended.

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- Please make sure that the quartz aggregates are completely dry, as they are available in their factory sealed packaging, before mixing them with binding resins.
- When choosing QUARTZ DECO aggregates, it is recommended to select from the same production batch to ensure a uniform aesthetic result.
- Mixing quartz aggregates of different grain sizes reduces the gaps/voids that can be created during the application of large grain size aggregates.

CONSUMPTION

Depending on the coating thickness of the mixture and the grain size of the quartz aggregates QUARTZ DECO.

For grain sizes exceeding 2mm, the consumption is 7-13kg/m², while for grain sizes less than 2mm, the consumption is 4-8kg/m².

STORAGE

Store in interior spaces of low humidity for an unlimited period of time.

SAFETY DIRECTIONS

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

PACKAGING

- Paper bag of 25kg on a 1,050kg pallet
- Paper bag of 20kg on a 1,080kg pallet

TECHNICAL SPECIFICATIONS	
Form - Color	Quartz aggregates of fixed grain sizes, available in 11 standard colors that can be mixed with each other
Colors - Grain sizes	MC1 Mediterranean Coast - 25kg (grain sizes between 2-4mm)
	AM2 Aegean Mosaic - 25kg (grain sizes between 4-8mm)
	RM3 River Mouth - 20kg (grain sizes between 1-2mm)
	IS4 Island Seaside - 20kg (grain sizes between 1-2mm)
	TB5 Total Black - 20kg (grain sizes between 0.7-2mm)
	PW6 Pure White - 20kg (grain sizes between 0.7-2mm)
	SH7 Stone Hill - 20kg (grain sizes between 0.7-1,7mm)
	RC8 Rocky Canyon - 20kg (grain sizes between 1-2mm)
	CA9 Côte d' Azur- 20kg (grain sizes between 0.7-2mm)
	LG10 Light Gray- 20kg (grain sizes between 0.7-2mm)
	DG11 Dark Gray- 20kg (grain sizes between 0.7-2mm)
Composition	SiO ₂
Mohs hardness	6-7
Moisture content	0%
Bulk density	1.45±0.5kg/lit

DUROSTICK S.A.

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