

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 the polyurethane resin QUARTZ DECO PU, the epoxy resin QUARTZ DECO EPOXY or the hybrid resin QUARTZ DECO HYBRID of DUROSTICK.

■ SYSTEM ADVANTAGES:

- Versatility.
- High quality and durability.
- Easy to clean.
- Non-slip.
- High aesthetic value.
- Applied on any sound surface.
- Creation of uniform surfaces, without joints.

■ APPLICATIONS

Currently, there are many completed QUARTZ DECO projects in a variety of architectural and decorative applications on floors, steps, walls, showers and swimming pools. Use it in new construction, but also in renovation projects, as well as any residential and commercial spaces alike. 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 from 0.1mm to 2mm), with the

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epoxy resin QUARTZ DECO EPOXY, they are suitable to create one of a kind, slip resistant stone carpets of high aesthetic value that can also withstand abrasion. Suitable for interior floor applications. By mixing with the same resin, they can also be applied on steps, walls, and swimming pools, provided that the surfaces are coated with the EPOXY PUTTY prior to the application.

By mixing them, (available grain sizes from 0.1mm to 8mm), with the polyurethane resin QUARTZ DECO PU they are suitable to create one of a kind, slip resistant stone carpets and stairs for exterior applications. Floors of high aesthetic value and abrasion resistance caused by pedestrian and vehicle traffic. By mixing them, (available grain sizes from 0.1mm to 2mm), with the hybrid resin QUARTZ DECO HYBRID, they are suitable for interior and exterior wall surfaces, and for the creation of granite 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**), all differ, depending on the aesthetic requirements, the use and the location of the application surface.

■ USE

1. Surface preparation:

The careful preparation of the substrate in the stone carpet and granite plaster systems, as well as other linings proposed for installation, is crucial for achieving the exceptional final results these systems are capable of yielding. The substrate must be sound, free from loose materials, dust, grease, oils and absolutely dry. It is also necessary for the floor substrate to be flat and structurally adequate. The moisture content of the substrate should not exceed 5%, and the relative humidity in the application area must be less than 65%.

The mixture is applied to properly prepared surfaces, according to the instructions on the binding resin indicated for each application.

2. Application:

Depending on the application (indoor or outdoor, floors or walls, etc.), there is available the appropriate binding resin with which the quartz

aggregates QUARTZ DECO are mixed, in order to make the decorative coating. The mixing ratio of QUARTZ DECO with the binder resin for each application varies, depending on the grain size.

Floor and indoor space stair applications: For additional information on the creation of QUARTZ DECO decorative floors indoors, as well as their application in bathrooms, showers, and swimming pools, consult the technical brochure of the epoxy binder resin QUARTZ DECO EPOXY.

The mixing ratio of QUARTZ DECO EPOXY with the quartz aggregates QUARTZ DECO for grain sizes up to 2mm is 12.5 / 100 by weight. **Minimum**

recommended application thickness for indoor stone carpets: 6mm for grain sizes from 0.1-2mm.

Floor and exterior space stair applications: For additional information on the creation of QUARTZ DECO decorative floors, consult the technical brochure of the polyurethane binder resin QUARTZ DECO PU. The mixing ratio of QUARTZ DECO PU with the quartz aggregates QUARTZ DECO for grain sizes over 2mm is 10/100, while for up to 2mm is 12.5/100 by weight.

Minimum recommended application thickness for exterior stone carpets: 6mm for grain sizes from 0.1-2mm, 8mm for grain sizes from 2-4mm and 10mm for grain sizes from 4-8mm.

Wall applications: For additional information on the application of quartz aggregates on indoor and outdoor wall surfaces, consult the technical brochure of the hybrid binder resin QUARTZ DECO HYBRID. The mixing ratio of QUARTZ DECO HYBRID with the quartz aggregates QUARTZ DECO for grain sizes less than 2mm is 33/100 by weight.

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

■ TIPS - NOTES:

- The application of QUARTZ DECO Mediterranean Coast and Aegean Mosaic colors on walls is not recommended. To apply these colors on floors, please consult with our Technical Support Team.
- 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.

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- When choosing QUARTZ DECO aggregates, it is recommended to select from the same production batch to ensure a uniform aesthetic result.
- The mixing of different grain size quartz aggregates reduces the gaps/voids that can form during the application of large grain size colors.

■ CONSUMPTION

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

QUARTZ DECO grain size	Coat thickness	Consumption/m ² QUARTZ DECO
0.1-2mm	6mm	9kg
2-4mm	8mm	12kg
4-8mm	10mm	15kg

■ STORAGE

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

■ 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, showing the package.

■ PACKAGING

Paper bag of 25kg on 1500kg pallet
Paper bag of 20kg on 1080kg pallet

COLORS – GRAIN SIZES		PACKAGING
MC1 Mediterranean Coast (grain sizes from 2-4mm)		25kg
AM2 Aegean Mosaic (grain sizes from 4-8mm)		25kg
RM3 River Mouth (grain sizes from 1-2mm)		20kg
RC8 Rocky Canyon (grain sizes from 1-2mm)		20kg
IS4 Island Seaside (grain sizes from 1-2mm)		20kg
TB5 Total Black (grain sizes from 0.7-2mm)		20kg
PW6 Pure White (grain sizes from 0.7-2mm)		20kg
SH7 Stone Hill (grain sizes from 0.7-1.7mm)		20kg
CA9 Côte d' Azur (grain sizes from 0.7-2mm)		20kg
LG10 Light Gray (grain sizes from 0.7-2mm)		20kg
DG11 Dark Gray (grain sizes from 0.7-2mm)		20kg
DB12 Desert Beige (grain sizes from 0.7-2mm)		20kg
CH13 Chocolate (grain sizes from 0.7-2mm)		20kg
CY15 Cypress Green (grain sizes from 0.1-1mm)		20kg
TI14 Tinos (grain sizes from 2-4mm)		20kg

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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TECHNICAL SPECIFICATIONS	
■ Form - Color	Quartz aggregates of fixed grain sizes, available in 15 standard colors that can be mixed with each other
■ Colors - Grain sizes	MC1 - 25kg (grain sizes from 2-4mm)
	AM2 - 25kg (grain sizes from 4-8mm)
	RM3 - 20kg (grain sizes from 1-2mm)
	IS4- 20kg (grain sizes from 1-2mm)
	TB5-20kg (grain sizes from 0.7-2mm)
	PW6 - 20kg (grain sizes from 0.7-2mm)
	SH7 - 20kg (grain sizes from 0.7-1.7mm)
	RC8 - 20kg (grain sizes from 1-2mm)
	CA9 - 20kg (grain sizes from 0.7-2mm)
	LG10 - 20kg (grain sizes from 0.7-2mm)
	DG11- 20kg (grain sizes from 0.7-2mm)
	DB12- 20kg (grain sizes from 0.7-2mm)
	CH13- 20kg (grain sizes from 0.7-2mm)
	CY15- 20kg (grain sizes from 0.1-1mm)
	TI14- 20kg (grain sizes from 2-4mm)
■ Composition	SiO ₂
■ Mohs hardness	6-7
■ Moisture content	0%
■ Bulk density	1.45±0.5kg/lt

DUROSTICK S.A.,
 MANUFACTURING OF ADHESIVES,
 PAINTS & MORTARS
ATHENS: ASPROPYRGOS, ATTICA, GR: 193 00,
 Tel: +30 211 60 03 500-599, +30 210 55 16 500,
 +30 210 55 98 350, Fax: +30 210 55 99 612
THESSALONIKI: INDUSTRIAL PARK-SINDOS, S.B. 44,
 STREET, DA 10, GR: 570 22,
 Tel: +30 2310 795 797, +30 2310 797 365,
 Fax: +30 2310 797 367
 Email: info@durostick.com

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