

## TECHNICAL DATA SHEET

# QUARTZ MOSAIC PROLAT

### PROPERTIES

The PROLAT Quartz Mosaic is a natural quartz flooring system without joints. It consists of natural quartz aggregates and specially selected high-solids polyurethane resins without solvents or other volatile organic compounds. Its special composition consists of 95% renewable raw materials, thus contributing to sustainability. It is non-slip, does not scratch, has excellent mechanical and chemical resistance and is immune to severe weather conditions and solar radiation. It can be applied to almost any structural surface such as concrete, cement floor screed, tile, marble, old mosaic, cement board or plasterboard and is not affected by the use of chemicals and cleaning agents. It is easy to work with, giving a uniform surface with a wonderful "mineral" finish that maintains its colors indelibly over time.

### FIELDS OF APPLICATION

The PROLAT Quartz Mosaic can be placed on exterior surfaces such as floors, stairs, worktops, walls, etc. Ideal for application in any area with high use and stress such as homes, offices, restaurants, hotels, car showrooms, retail stores, etc. and various furniture. If requested, with different resins (but with the same visual effect) it can also be used in swimming pools. Also with different resins, it can also be placed in car parks.

### METHOD OF USE

#### Surface preparation

The application surface must be clean and free of loose spots, dust, paint residues, grease, oils, etc. Then we apply a micronized primer.

The floor should be smooth enough to accept the 5mm thickness of the quartz mosaic.

So, in case the floor needs to be smoothed, this smoothing is done by applying the quartz putty betofix power without the use of a mesh.

Such cases where smoothing is needed are when we have old stone, tile with joints or not smooth concrete on the surface.

In the case of vertical surfaces, we use LavaDrops Primer Vertical as a primer, which after first mixing it in its container and homogenizing the liquid with the powder in the container, we apply it with a spatula to the vertical element (wall, slat, skirting board) and then we immediately apply the Quartz Mosaic, mixing the sand with the resin A+B according to the instructions, and adding two additional handfuls of thickener to the mixture. It is very important to close the container of LavaDrops Primer Vertical very well airtight after use, because it solidifies when exposed to the environment.

Caution: The mixing of the two components should be done using a precision scale.

### Preparation of Quartz Mosaic PROLAT

We create working mixtures per 1 m<sup>2</sup> and not larger quantities, adding to the container where we have the Quartz XΨ, first the XΨ Resin comp. A and then the XΨ Resin comp. B, under continuous slow stirring for at least 3 minutes, ensuring in advance that the resins are homogenized - fluid.

We always take care to clean the mixing bucket very well every time we make a mixture, even from the material that remains on its walls. The mixing ratios of the resin with the quartz are shown in the table below:

### Description Quantities

NATURAL STONE and ROYAL STONE: 7 kg Quartz Sand + 0.41 kg Resin A + 0.42 kg Resin B

ART STONE 7 kg Quartz Sand + 0.41 kg Resin A + 0.54 kg Resin B + 10gr thickener

**TECHNICAL DATA SHEET****QUARTZ MOSAIC PROLAT****Application of PROLAT Quartz Mosaic**

Apply PROLAT Quartz Mosaic in one layer, spreading it with a notched trowel according to the desired application thickness. Then level with a smooth stainless steel trowel and clean the tools with White Spirit during the application. In the case of vertical surfaces, add PROLAT Thickener to the mixture. The addition ratio is 0.11% (10 gr of PROLAT Thickener in 9 kg of mixture).

In case a project includes vertical and horizontal surfaces, we apply the Quartz Mosaic first to the vertical elements (skirting boards, quoins, etc.) and then to the horizontal surfaces.

**CLEANING**

It is cleaned with a high-pressure pressure washer. In places where there is a strong stain, it is washed with a pressure washer and the frequent-use cleaner LavaClean General by PROLAT. For more intense stains and use on an annual basis, LavaClean Professional by PROLAT can be used.

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Technical Characteristics	
Granulation	0.5 – 2.5mm
Minimum application thickness	4.0 mm
Quartz composition	96 % - 98 % SiO <sub>2</sub>
Mohs hardness	7
Colors	<b>Natural Stone:</b> QM16 <b>Royal Stone:</b> QM19, QM60, QM61, QM62, QM64, QM67, QM68, QM79, QM80, QM81, QM88 <b>Art Stone:</b> QM23, QM25, QM33, QM34, QM46, QM47, QM48, QM82 <b>Gold Stone:</b> QM69, QM70
Kg / m <sup>2</sup>	7 kg χαλαζίας + ρητίνες
Resin solids (%)	ca. 100% - Σύμφωνα με ISO 32510
VOC content (%)	0 %
Resin Acid value	ca. 3 mg KOH/g - Σύμφωνα με ISO 660
Resin viscosity (Höppler at 25°C)	ca. 2300 mPas - Σύμφωνα με ISO 12058-1
Shore A/D-Grade after 1-day room temperature + 3 days 50°C	ca. 96/65 - Σύμφωνα με DIN 53787
Elongation at break	ca. 50% - Σύμφωνα με ISO 37: 1994
Τελική τάση	ca. 16N/mm <sup>2</sup> - Σύμφωνα με ISO 37: 1994
Quartz storage time	5 έτη
Resin storage time	6 μήνες στην αρχική τους κλειστή συσκευασία σε 10-30°C
Slipperiness under EN 13036-4	Εξαιρετικά χαμηλή



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**Reflectivity Values:** (Measurements based on international standards *ASTM E903-12* & *ASTMG159-98*.)

SR	SRuv	SRvis	SRnir	Emission Factor (e) (error $\pm 0,02$ )	Solar Reflectance Index (SRI)
53	9	57	52	0,74	57

