

TECHNICAL DATA SHEET

QUARTZ MOSAIC PROLAT

PROPERTIES

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

FIELDS OF APPLICATION

The **QUARTZ MOSAIC** can be placed on exterior surfaces such as floors, stairs, walls, benches, various furniture, etc. Ideal for application in any area with high usage and load such as homes, offices, restaurants, hotels, car showrooms, retail stores.

APPLICATION

Surface preparation

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

The floor should be smooth enough to accept the 5mm thickness of the **QUARTZ MOSAIC**.

If floor leveling is required, the leveling is done by applying **Betofix Power** without the use of mesh. Such cases where smoothing is needed are when we have old stone, Karystos stones, tile with joints or not smooth concrete on the surface.

In the case of vertical surfaces, 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. Apply it with a spatula to the vertical element (wall, wall, skirting) and then immediately apply the **QUARTZ MOSAIC** by mixing the sand with the resin A+B according to the instructions, and add two additional doses 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 with its exposure to the environment.

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

Preparation of QUARTZ MOSAIC PROLAT

We create work mixtures per 1 m² (not larger quantities), by adding to the container where we have the Quartz XΨ, first the Resin XΨ comp.A and then the Resin XΨ comp. B, under continuous slow stirring of at least 3 minutes, ensuring the homogeneity and fluidity of the mixture.

We always make sure to clean the mixing bucket very well every time we make a mixture, even from the material that remains on its walls. The mixing

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ratios of resin and quartz sand are shown in the table below:

Description	Quantities
NATURAL STONE and ROYAL STONE:	7 kg Quartz sand + 0,410 kg resin A + 0,420 kg resin B
ART STONE	7 kg Quartz sand + 0.410 kg resin A + 0,420 kg resin B + 10gr thickener

Application of PROLAT QUARTZ MOSAIC

We apply **QUARTZ MOSAIC** in one layer, spreading it with a toothed spatula according to the desired application thickness. Then we level with a smooth stainless spatula and during the application we clean the tools with white spirit. In the case of vertical surfaces, add thickener XΨ to the mixture. The mixing ratio is 0.11% (10 gr of thickener XΨ in 9 kg of mixture).

In case a project includes vertical and horizontal surfaces, we apply the **QUARTZ MOSAIC** first to the vertical elements and then to the horizontal surfaces.

CLEANING

It is cleaned with a high-pressure pressure machine (not with a simple water gun on the rubber).

In places where there is a strong stain, wash with a pressure washer and use the cleaner **LavaClean General** by PROLAT. For more intense stains and annual use, PROLAT's **LavaClean Professional** can be used.

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Technical Characteristics

Quartz Sand Granulation	0.5 – 2.5mm
Minimum application thickness	4.0 mm
Quartz Sand composition	96 % - 98 % SiO ₂
Hardness (Mohs)	7
Consumption per m ²	7 kg quartz sand + resins
Resin solids (%)	ca. 100% - According to ISO 32510
VOC content (%)	0 %
Resin viscosity (Höppler at 25°C)	ca. 2300 mPas - According to ISO 12058-1
Shore A/D-Grade after 1-day room temperature + 3 days 50°C	ca. 96/65 - According to DIN 53787
Elongation at break	ca. 50% - According to ISO 37: 1994
Final strain	ca. 16N/mm ² - According to ISO 37: 1994
Quartz storing time	5 years
Resin storing time	6 months in the original sealed packaging in 10-30°C
Slipperiness according to EN 13036-4	Extremely low



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Revision v.8
Revision Date: 06/2024

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Reflectivity values: (Measurements according to ASTM E903-12 & ASTM G159-98.)

SR	SRuv	SRvis	SRnir	Emittance coefficient(e) (error ± 0,02)	Solar Reflectance Index (SRI)
53	9	57	52	0,74	57



NOTICE

The technical information and instructions provided in this datasheet referring to the application and end use of PROLAT products are based on the company's expertise and experience with the products to date. They are provided in good faith under the condition that the products are stored, used, and applied in accordance with PROLAT's instructions. However, given our inability to directly oversee conditions at construction sites or during product application, the company cannot guarantee the suitability of its products for specific purposes, nor does it assume any legal responsibility based on the information provided in this brochure, whether written, oral, or otherwise communicated. Users are advised to conduct a small test to assess the suitability of the products for their intended application and purpose of use. The company reserves the right to modify the properties of its products without prior notice.