PROLAT NATURAL INNOVATIVE MATERIALS

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Revision v.7
Revision Date: 07/2021

TECHNICAL DATA SHEET

QUARTZ MOSAIC PROLAT

PROPERTIES

PROLAT Quartz Mosaic is a natural quartz floor 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% of renewable raw materials, thus contributing to sustainability. It is non-slip, does not scratch, has excellent mechanical and chemical resistance and is vulnerable 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 PROLAT** can be placed on interior or exterior surfaces such as floors, stairs, workbenches, walls, etc. Ideal for application in any area with high usage and load such as homes, offices, restaurants, hotels, car showrooms, retail stores, floors and stairs, benches, walls and various furniture.

APPLICATION

Surface preparation

The application surface must be clean and free of loose spots, dust, paint residues, grease, oils, etc.

Priming

Apply LavaDrops Primer on the floor using a roller and making sure a full and uniform coverage is achieved. Highly absorbent surfaces may require a second coat. In this case, dilute the first layer of LavaDrops Primer with an additional 5% water. **Quartz Mosaic** is applied the next day.

In case of application on vertical surfaces, use **LavaDrops Primer Vertical** as 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, stairs, skirting) and then immediately apply Quartz Mosaic, mixing the sand with the A + B resin according to the instructions, and adding to the mixture two extra handfuls of thickening dust. It is very important to close the container of LavaDrops Primer Vertical very well and airtight after use, because it solidifies with its exposure to air as it reacts with the air moisture.

Caution: Mixing the two ingredients should be done using a precision scale.

Preparation of Quartz Mosaic PROLAT

Create working mixtures per 1 m^2 and not larger quantities, adding to the container of Quartz XΨ, first Resin XΨ component A and then Resin XΨ component B, while applying continuous slow stirring for at least 3 minutes, ensuring that the resins are fluid and homogeneous.

Always make sure to clean the mixing bucket very well after making each mixture, and remove thoroughly the material that remains on its walls. Mixing ratios of the resin with the quartz are shown in the table below:

Περιγραφή	***Ποσότητες***
NATURAL STONE και ROYAL STONE:	8 kg Quartz Sand + 0,470 kg Resin A + 0,530 kg Resin B
ART STONE	8 kg Quartz Sand + 0.470 kg Resin A + 0,530 kg Resin B + 10gr thickener
BIG STONE	10 kg Quartz Sand + 0,470 kg Resin A + 0,530 kg Resin B

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Application of Quartz Mosaic PROLAT

Apply Quartz Mosaic PROLAT mixture in one continues layer, spreading it with a toothed spatula according to the desired thickness of application. Then flatten with a smooth stainless-steel spatula and during the application clean the tools with White Spirit. In case of vertical surfaces, add **ΧΨ PROLAT Thickener** to the mixture. The addition ratio is 0.11% (10 g XL PROLAT Thickener in 9 kg of mixture).

In case the project includes vertical and horizontal surfaces, apply **Quartz Mosaic** first to the vertical elements (skirting, stairs, etc.) and then to the horizontal surfaces.

SEALING

Once the floor is completely dry (after 1-2 days), it can be sealed so there is a greater protection against dirt. LavaDrops Quartz sealant is applied undiluted as it is, with a roller on the surface. Next day the floor is ready for use.

In case you a fully sealed surface is required, ideal for mopping, instead of LavaDrops Quartz, apply LavaDrops Quartz Gel after first mixing it in its container and homogenizing the liquid with the powder inside the container. **LavaDrops Quartz Gel** is applied 'scratched' with a metal spatula on the surface of the Quartz Mosaic. The next day apply two coats of **LavaDrops Plus** varnish. The next day, the floor is walkable and can be mopped using detergents in a week. The sealed **Quartz Mosaic Prolat** it is not affected by the usual household cleaning liquids and chemicals. It is very important to close the container of LavaDrops Quartz Gel very well and airtight after use, because it reacts with the humidity of the environment and solidifies.

CLEANING

Surface of **Quartz Mosaic** on which **LavaDrops Quartz Gel** has not been applied is cleaned with a high-pressure pressure machine (not with a simple water gun on the hose).

In places where there is a strong stain, wash with pressure and then apply an alkaline cleaner with Ph> 10.

Leave the cleanser on for 5-10 minutes maximum, brush the surface with a broom, and then rinse with the pressure cleaner.

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Technical Characteristics	
Granular mosaic gradation	0.5 – 2.5mm
Minimum application thickness	4.0 mm
Mosaic composition	96 % - 98 % SiO_2
Hardness (Mohs)	7
Colors	**Natural Stone:** QM4, QM6, QM10, QM15, QM16, QM20, QM21, QM65 **Royal Stone:** QM19, QM60, QM61, QM62, QM63, QM64, QM66, QM67, QM68, QM69, QM70 **Art Stone:** QM23, QM24, QM25, QM32, QM33, QM34, QM43, QM45, QM46, QM47, QM48, QM49, QM50, QM51, QM52, QM54, QM55, QM56 **Big Stone:** QM5, QM17, QM31, QM57
Consumption per m^2	NATURAL STONE: 8 kg quartz + resins ROYAL STONE: 8 kg quartz + resins ART STONE = 8 kg quartz + resins BIG STONE = 10 kg quartz + resins
Resin solids (%)	ca. 100% - According to ISO 32510
VOC content (%)	0 %
Resin acid value	ca. 3 mg KOH/g - According to ISO 660
Resin viscocity (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