

TECHNICAL DATA SHEET

LAVASTONE – RESIN BASED PEBBLE FLOOR

PROPERTIES

LavaStone is a resin-based pebble embossed floor, suitable for public or private outdoor areas with light or heavy traffic. It is cement-based and reinforced with special resins that gives high mechanical strength with very strong adhesion to the substrate, and very good non-slip properties. It contains quartz and decorative pebbles with specially designed size distribution. The final thickness of the pebble floor can be up to 12 mm and is available in many selected colors.

FIELDS OF APPLICATION

LavaStone is ideal for application in areas such as gardens, yards, parking, and generally outdoor roads, while its application is recommended on bike pathways and in areas with gentle car traffic.

APPLICATION

Surface preparation

LavaStone can be applied to smooth concrete surfaces, old tile, pavement slabs, or any solid surface without oscillations and loose spots. Before applying **LavaStone** ensure that the substrate is clean of dust, oils, etc, so that adhesion is maximized. If there is a non-absorbent surface, such as tile, a quartz based adhesive primer should be applied before the application of **LavaStone**. Finally, cracks in the substrate, must be repaired either with epoxy resin or with elastic cement-based putty.

Application

LavaStone is prepared by mixing it with an electric hand mixer at low speed (~ 300 r.p.m.) or with another mechanical mixer or concrete barrel mixer. Pour the appropriate amount of water into the mixing vessel and while mixing slowly, add the powder to the water and mix well for at least 3 minutes. Add extra water during mixing until a

homogeneous, agglomerated mixture is formed. 25 kg of dry mortar require 3.5-4.0 lt of water. Depending on the desired workability extra water can be added as it does not affect its final properties. Spread **LavaStone** in a layer of 15 mm thickness using a flat metal spatula. Due to the high durability of the floor, there must be expansion joints every 5-6 running meters. If necessary, the joints can be filled with a suitable sealant. **LavaStone** should not be applied over existing substrate joints. After at least 48 hours, or much later if desired, **LavaStone** can be sanded with a marble grinding machine without using water. A 24 grade 'diamond' or 'stone-kidney' is used with the grinding machine. For a smoother finish, it can also be sanded with a 36-inch 'stone-kidney', again without water. However, the best of all is to sand with a coarse diamond grinder and then a medium size one. Finally, apply with a roller or pistol one or two coats of **LavaDrops Penetrate** without dilution to waterproof the surface of **Lavastone**.

CONSUMPTION

LavaStone: 25 kg/1,5cm/m²

LavaDrops Penetrate: 0.15 kg/m²

STORAGE

Store in frost-protected areas for at least 18 months from the date of production.

RESTRICTIONS

Do not apply the product when the ambient temperature and / or the temperature of the substrate is below 5 °C or above 35 °C.

SAFETY

If swallowed, seek medical advice immediately by pointing to the container or label.

PACKAGING

25kg bag.

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Revision v.7
Revision Date: 12/2020

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Technical Characteristics

Appearance	Cement-based mortar, with quartz aggregates	Application temperature	5 °C to 35 °C
Color	Embossed in various shades	Bulk density of dry mortar (EN 1510-10)	1,84 gr/ml
Water demand	3.5-4.0lt of water for 25kg mortar	Compressive strength, 28d (EN 1015-11)	15.0 MPa
Application thickness	12 mm	Adhesion strength (EN 1015-12)	2,20 Mpa
Consumption	20-25 kg/m ²	Capillary water absorption coefficient (EN 1015-18)	w<0,01 kg/m ² min ^{0.5}
Bulk density of fresh mortar (EN 1015-6)	1,96 gr/ml	Pot life	4 hr
Consistency of fresh mortar (EN 1015-3)	142 mm	Walkable after	24hr