

MORA FLOOR TERRAZO

Description:

MORA FLOOR TERRAZO is a cement-based terrazzo type flooring with selected Spanish marbles. With quick and easy application, MORA FLOOR TERRAZO allows the creation of surfaces with the traditional high aesthetic value of a classic Venetian floor, particularly suitable for commercial and residential surfaces, museums and hotels.

Fields of use:

MORA FLOOR TERRAZO, in its multiple chromatic finishes, is particularly well suited for use in prestigious environments, perfectly harmonizing both modern architecture and classic restoration projects.

It is particularly suitable for:

-  Commercial areas
-  Housing
-  Hotels
-  Airports and large public spaces



Bulk density	approx. 1.28 kg/Lit
Fresh mortar density	Approx. 1.95 kg/Lit
Mixing ratio	50 to 55 % Aggregate
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Application thickness	8 to 60 mm (based on the aggregates size)
Strength class	CT-C35-F5 – CT-C40-F7 according to DIN EN 13813
Abrasion resistance	High abrasion
Compressive strength EN 13813:2003	>40 Mpa
Flexural strength EN: 13813:2003	approx. 7N/mm ²
Processing temperature	Min. +15°C, max. 40°C
Load ability (Curing at 20°C)	Grindable: from 8h to 24 hours (depending on site condition) Fully loadable: minimum 2 days (after application completion)
Mixing ratio	5.3 – 5.6 Lit water per 20 kg powder + 20 to 25 kg aggregates
Processing time possible	approx. 30 min (at 20°C) approx. 20 min (at 40°C)
Consumption	approx. 2.1 kg / m ² @ 1 mm layer thickness
VOC emission	Very low emission EC1 ^{plus}

INSTRUCTIONS FOR USE:

SUBSTRATE PREPARATION

The substrate must be structurally stable, crack-free, permanently vibration-free and having a sufficient surface tensile strength. All surfaces should be clean, dry, and free from grease, laitance, oil, dust, paint, and any other substance that may prevent or reduce adhesion. Remove all weak, loose, smooth, or broken pieces of concrete until it reaches a sound rough concrete. This result can be achieved primarily by shot-blasting, otherwise by grinding. Depending on substrate conditions, any crack or deep ruptures must be repaired prior to MORA FLOOR TERRAZZO application, using MORA cryl22 Substrate, moisture content should be $\leq 3\%$, additionally, the surface tensile strength should be at least 1 N/mm^2 for light and medium traffic floor, 1.5 N/mm^2 for industrial floor (depending on the substrate application thickness, these figures could be achieved after approx. 28 days). To avoid long waiting time for the substrate to dry and to be ready to accept mora floor Terrazzo, a rapid drying screed solution, such as floor rapid, could be applied, allowing to apply mora floor Terrazzo layer, after 4 days. The edge joint must be prepared with a suitable expansion strip. Thereby attention must be paid to avoid material flowing below or behind the expansion strip, moreover, expansion joints must be adopted. After finishing the whole application steps, all joints have to be filled with a permanently elastic compound. Additionally, fix soft strips (3 to 5 mm thickness) as a separation between the walls / columns and the screed. Thereafter, the substrate must be vacuumed and primed with mora floor Prime, using a soft brush or a roller. Priming the surface will adjust substrate absorbency and avoid the rising of air bubbles during the subsequent layers. For dry and porous substrate, apply mora floor prime in 2 coats, with water dilution at the ratio 1:1 (primer: water). Allow the first primer coat to dry to a clear film before applying the second layer. A third coat might be required, depending on the substrate porosity. Mora floor Terrazzo should be applied as soon as the color of the primed surface changes from white to clear. For heavily cracked substrates and to avoid reflective cracks, it is highly recommended to treat the surface with a crack suppression membrane, consisting of Mora seal.

PRODUCT VERSIONS:

Mora floor Terrazzo can be applied in different versions. Depending on the specific purpose and product version, it is possible to vary the grain size of the decorative aggregates to be used. For application of a terrazzo floor, mix 1 to 1.25 parts (parts by weight) of decorative aggregates with 1 part of mora floor Terrazzo. Please refer to the characteristics table above for the permitted grain sizes. The used decorative aggregates must be suitable for application according to DIN EN 13139. The selection of the aggregates has to be clarified with Alamoudi sales department. The required amount of water for the fresh mortar varies depending on the specific product version and the desired consistency.

PRODUCT PREPARATION:

Mix the material by using a commercial compulsory mixer (WM Jet mix 125/180), or equivalent type of mixers, which should be validated by Alamoudi technical team before usage. The required amount of water for the used grain size has to be pretested on a small test area. First add the decorative aggregates into the mixing container while mixing, then add the respective amount of cool water (20 to 30 °C) and mix for around 1 minute. thereafter, add mora floor Terrazzo gradually. Do not use special screed additives or other binders for mixing. After adding all components, the fresh mortar is mixed intensively for 3 – 4 minutes, until the material has reached the desired consistency. At the beginning of the mixing process the mortar is creamier than at the end of the recommended mixing time. To avoid overdosing of mixing water, additional amounts of water should only be added at the end of the mixing process (max. 100 -200 ml).

PIGMENTATION:

Mora floor Terrazzo can be pigmented with liquid or powder pigments as needed. The respective pigment dosage is added to the mixing water, based on customer requirement and selected design. After selecting the right pigment type and dosage, it must be mixed intensively for at least 1 minute. Prior to application of the mortar, the coloring and the desired visual appearance should be checked on a separate test area. It is recommended to use Alamoudi pigments; however, for other pigments and preparations, no certain appearance or quality can be guaranteed. The usage of each pigment and the suitability for the desired finish, has to be clarified with Alamoudi technical team in advance.

OUTDOOR APPLICATION :

For outdoor application, the following precautions should be restrictedly taken into consideration:

- ✚ It is recommended to work during evening time.
- ✚ The application area should be shaded.
- ✚ After surface preparation, the application area should be protected from any kind of dust and heavy wind (during application and for the first 24 hours).
- ✚ The temperature of the freshly mixed material should be in the range of 20 °C to 30 °C. (use cold water or ice if necessary).
- ✚ The freshly applied material should be protected from any kind of water precipitation (dew drops, water condensation, rain, etc.).
- ✚ Application area should be divided into manageable parts.

PRODUCT APPLICATION:

- ✚ After mixing, the mortar has to be poured out seamlessly within the mentioned processing time, then distributed with a large trowel or spatula, to the intended thickness.
- ✚ By working under extreme climatic conditions near the specified temperature limits (+20 °C to 40 °C) an application of a small amount of material is recommended to check the processing time under the ambient conditions. At extremely low temperatures, the workability time given in the technical data sheet increases. At extremely high temperatures, the specified workability time decreases. This should be considered during application.

POST-PROCESSING & PROTECTION:

Grinding work can be started from 8 to 24 hours after application of the Terrazzo floor (depending on site condition). It is recommended to use a heavy-duty grinding floor grinding and polishing machines as per the following steps:

✚ Grinding up to the large grain cross-section:

The Terrazzo surface is first sanded flat with coarser tools (steel blade). The depth of removal depends on the largest grain used and the desired appearance.

Grinding of the edge areas up to the large grain cross-section:

After the main surfaces have been sanded, the edge area is processed with a hand machine. To achieve a uniform appearance, the material must be removed in the same way as the rest of the surface.

Pore filling:

After mora seal has dried out at the surface (around 1 hour), the entire surface should be treated with mora floor protect using a mop. The application quantity should not exceed a maximum of 150 g/m². mora floor protect should be left for at least 2 hours before middle cut. 5- Middle cut:

After the filler layer has completely hardened, the excess is removed with another sanding step (finer tool resin base blade). The edge area is then processed in the same way.

Fine polishing:

At the end of the sanding work, the surface is fine sanded with finer resin blade, depending on the desired degree of gloss. The edge area is then processed in the same way with the respective pads.

Sealer:

Before starting the sealing work, it is advisable to remove any existing dust with a new micro fiber mop. Afterwards, the surface should only be walked on with shoe covers. Mora floor seal S is then applied in 1 to 2 coats using a short hair painting roller. The total application quantity is 100-150 g/m².

Please note Long-term water load should be avoided within the first 3 days. Afterwards, the full resistance to permanent water load, drinks, oil and fats is given. Any signs of wear and tear cannot be avoided due to mechanical abrasion but can be retouched by polishing again.

APPLICABLE STANDARDS:

EN 13813:2003; EN 13892-8:2002; EN 13872, DIN EN 13139.

TOOLS AND CLEANING:

Compulsory mixer or comparable mixing device, trowel, spatula, rubber squeegee and grinding/polishing devices. All equipment should be washed clean with water and dried before and after application.

PACKAGING AND SHELF-LIFE:



20 kg paper bags.

Original packing is storable for 12 months in dry and controlled temperate areas (10 –35°C).

Important Notes:

If a uniform color is desired, it is necessary to work on designated sections with the same batch (see label). In addition, changing working techniques and water mixing ratio during the application, will also have an impact on the final design and light color shades on the surface can occur. Mora Floor Terrazzo is a mineral based product; hence colors are not fully conformed to the RAL-Map, and therefore, they should only be seen as estimated classifications.

