

ARKIM ARFLOOR QUARTZ /8211

■ Definition

Surface hardening mortar based on special type cement, high quality quartz aggregate and performance-enhancing chemical additives, applied monolithically on fresh concrete surfaces.

■ Application area

- It is applied on all floor coverings where high mechanical abrasion resistance is required and dust-free.
- Indoors and outdoors,
- In factories, business centers,
- Garages, car parks and basement floors,
- In hangars and mechanical workshops,
- In loading and unloading areas,
- In metro stations and underground passages,
- It is used in parks and gardens, pedestrian ways and sidewalks.

■ App features

- Aggregate Hardness: 7 Mohs Scale
- 3 different color options

■ Surface preparation

- If ARKIM ARFLOOR QUARTZ is to be applied on old concrete, it must first be washed at least 7.5 cm. thick C 25 concrete should be poured.
- The surface of the fresh concrete to be applied should not be polished with a steel trowel or tray finish, but should be smoothed with a wooden trowel.
- The concrete to be applied must be wet enough that ARKIM ARFLOOR QUARTZ can absorb the moisture it needs. The degree of wetness of the surface is extremely important. If the surface is too wet, ARKIM ARFLOOR QUARTZ will disappear into the concrete's own thickness and lose its effectiveness. If the surface is too dry, the product will not bond to the surface and the result will be negative.

■ Application conditions

- Ambient temperature between +5 °C and +35 °C,
- It should not be applied on frozen, melting or frost risk surfaces within 24 hours.
- Do not apply in very humid and/or very hot weather, under strong wind or sun.

■ Warnings and Advice

- Absolutely no foreign substances should be added.
- There should not be more polishing than necessary, the product should not be thrown away during the application to prevent the quartz aggregate from separating from the cement.
- The surface should not be polished with a steel trowel or tray before applying ARKIM ARFLOOR QUARTZ.
- After the application, all the tools used should be washed with water before they dry.

■ Application tools

Trowel tray, Trowel blade, Helicopter, Scattering equipment

■ Application

- Depending on the dimensions of the floor 4 - 5 m. wide anodes are placed one full and one empty. Where necessary, mesh steel is placed inside the anodes and leveling is completed. In order for ARKIM ARFLOOR QUARTZ to be best distributed on the surface, scattering must be done on both sides of the anodes.
- Maximum 2 - 3 mm when stepping on concrete with feet. ARKIM ARFLOOR QUARTZ is spread evenly on the floor by hand or with a mechanical spreader when it is set enough to leave a deep footprint. The material should not be left on the surface in clusters, and a homogeneous distribution should be provided as much as possible. In addition, it should not be spread over long distances so that the aggregates in the product do not decompose. It is expected that the material will absorb the water of the concrete, become moist and acquire a dark color. Care is taken to ensure that the color is equal on all sides of the floor. Integration is ensured by thoroughly feeding the material to the ground with a wooden trowel.
- Some material is sprinkled on the edges of the anode and dilatation joints, which are under the highest load, as an 8 cm strip and fed with a wooden trowel.
- Steel trowel (helicopter) finishing is done when the surface is hard enough to walk on.
- Then the blade is polished and this process is continued until the desired brightness is achieved.

Technical Data Sheet/Publish Date: 01.01.2013/Revision No: 01/Revision Date:20.11.2017

-After 6 - 12 hours of application, curing material should be used so that the surface does not lose its water as quickly as desired.

Joint cutting should be done within 2-3 days at the latest after the concrete is poured. Joints should be filled with polyurethane mastic and polyethylene joint sealant.

■ Consumption

Approximately 4.5-5 kg/ m²

• Performance Information

-Abrasion Resistance ≤ 3g

-Collision Resistance SII min. 10Nm

-Capillary Water Absorption: ≤ 0.1 kg/m² .min^{0.5}

-Substrate: ≥ 0.8 N/mm²

-Temperature resistance: -30 °C to + 60 °C

Note: The application properties are provided as a result of experiments carried out in a laboratory environment (23 ± 2 °C and 50 ± 5% humidity and no air flow) and may vary according to different ambient conditions. Performance information has been tested in the environments specified in accordance with the relevant standard of the product, and results may differ in different environments.

• Reference Standards

-TS EN 1504-2

• PACKAGING

-25 kg Kraft bag,

-64 pieces on pallet, 1600 kg

■ Physical state

- Grey-Green-Red, powder

• Storage Conditions

- Care should be taken to place a maximum of 10 layers of Kraft bags on top of each other during storage. It should be stored indoors and in areas away from direct sunlight.

-The bags should be stored in such a way that they do not touch the ground and be protected from moisture.

-Under these conditions, the product can be stored for 12 months from the date of manufacture.

- Improper storage conditions or exceeding the period of use may deteriorate the qualities of the product.