

EKOKAT SURFACE HDR - QZ

Quartz-Based Surface Hardening Mortar



DESCRIPTION

The product is a cement-based, ready for use surface hardening material containing quartz aggregates of a special particle size and chemical additives enhancing product performance, which is applied through spreading in the form of powder on freshly finished floor concrete that would experience medium to heavy loads.

It conforms to TS EN 1504 – 2 / April 2008 standard.

TECHNICAL SPECIFICATIONS

Appearance	Grey, Red, Yellow, Green Powder
Amount of Consumption	5-6 kg/m ²
Application Temperature	+5 °C to +35 °C
Time Before Availability	Time Before Walk On: 24 hours Heavy Traffic: 48 hours
Toxicity	Non-toxic
Pressure Strength	70-75 N/mm ²
Wear Resistance	6 cm ³ / 50 cm ³ (using böhme methodu)
Fire Reaction Class	A1 (TS EN 13501 – 1:2007)

* The above values are valid for + 23°C and 50% relative humidity. The time is shortened at high temperatures and extended at low temperatures.

AREAS OF USE

It can be used safely on the floors of industrial plants, garages and parking lots, hangars and mechanical workshops, fuel stations, warehouses, and interior and exterior spaces. It is applied on fresh concrete surfaces where a high degree of mechanical resistance is required, and where dusting is not desired to happen on concrete surface.

BENEFITS

It is easy to apply on freshly finished floor concrete. Thanks to its content of special chemical additives, it absorbs the water content of the floor concrete on which it is applied, and establishes a single structure with concrete after completion of finishing process. It is 2-4 times more resistant to abrasion than normal concrete surface. It has high adhesion ability. It is resistant to frost-thaw cycle.

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INSTRUCTIONS FOR USE

The application of the surface hardener is intended to increase the abrasion, dusting, and impact strengths of concrete and screed on the upper part of concrete, and has no effect on the pressure, tensile, and bending strengths of concrete. Any incorrect projection defects as well as application cracks that may occur in the screed concrete would be entirely reflected on the surface hardener. A vibrojig should be used to correct the concrete surface to which the surface hardener is to be applied. The floating and monolithic screed applications should be selected based on project requirements. The jigs are placed according to the project. Cement grout should be removed from the concrete surface. The concrete surface is checked before spreading the material. The spreading application should be carried out after completion of the hardening process so that a footprint with a depth of 0.5 - 1.5 cm is left when concrete is pressed depending upon ambient and weather conditions. EKOKAT SURFACE QZ surface hardener must not be spread from far distances when applied in order to prevent the aggregates contained in the surface hardener from dissolving. The product should be sprayed and smoothed as homogeneously as possible. First, 2/3 of the total consumption amount is spread on the concrete surface and spread by machine. The spread material should be allowed to get dampened by absorbing water out of concrete, and the surface hardeners should be integrated to the concrete through the application of a disk finishing process. Then the remaining material should be spread on the concrete surface as in the first application and the same works should be repeated. A fine finishing process should be applied after completion of the rough finishing process. The fine finishing is the one that is performed with a knife. The finishing process with a knife should be done until the desired Brightness is achieved. After the application of the surface hardener is completed, the surface is cured so as to prevent shrinkage cracks and to provide a dust-free medium. The curing process should be done certainly in the summer and winter. After the application is completed, the joints of the jigs should be cut with a width of at least 4 mm in order to form joints. Joints should be filled with a suitable mastic. The concrete to which EKOKAT SURFACE QZ is to be applied should have a class of at least C25 (350 doses) with a minimum thickness of 15 cm.

WARNINGS

Properties such as water and cement in concrete can cause slight color differences. Care must be paid to the timing at the time of application, and correct finishing methods should be used. At the time of application, the effects of wind and sun should be taken into consideration at exterior spaces, and the ambient temperature should be between +5 ° C and +35 ° C. Application should not be performed under very humid and hot weather conditions. It is normal to observe color differences through the drying process. Concrete is recommended to have no additives except under special conditions.

REFERENCE STANDARDS

TS EN 1504 – 2 / April 2008

PACKAGING

25 kg Craft bag (PE reinforced)

64 shrink bags on one palette (110x110 cm).

APPLICATION TOOLS

Trowel, jig, finishing machine (finishing tray, finishing blade)

STORAGE CONDITIONS AND SHELF LIFE

No more than two palettes should be placed on top of each other in their unopened original packaging, in a cool and dry environment. Shelf life is 12 months from date of production under suitable storage conditions.

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SAFETY MEASURES

Work clothes, protective gloves, goggles, and masks suitable for workers health and safety should be used during the application. Due to irritant effects of uncured material, it should be washed with plenty of water and soap immediately in case of contact with skin and eyes. If swallowed, seek medical advice immediately. No food and drink should be brought into application areas. Store it out of reach of children. Please refer to the safety data sheet for further information.

RESPONSIBILITY

Our Company may not be held liable for any application errors that might be suffered if the product is not used for its intended purposes, or if it is failed to conform to the conditions and proposals specified above regarding technical application. This technical data sheet contains information that is current as of the date of issuance hereof. The manufacturer hereby reserves its right to change this data sheet at any time.

■ ■ ■ EK 1010.010.25	 Grey
■ ■ ■ EK 1011.030.25	 Red
■ ■ ■ EK 1012.040.25	 Yellow
■ ■ ■ EK 1013.050.25	 Green

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