

# KingShake® C100

Pre-blended quartz dry shake floor topping.

## DESCRIPTION

KingShake C100 is a quartz based, chemically inert, dry shake floor topping for monolithic floors. The product contains a blend of specially graded aggregates, additives and Ordinary Cements.

When trowelled into freshly laid concrete, KingShake C100 produces a dense, tough, abrasion resistant surface suitable for most industrial floors.

## APPLICATIONS

- ☒ Parking areas.
- ☒ Warehouses.
- ☒ Workshops.
- ☒ Service stations.
- ☒ Aircraft hangars.

## ADVANTAGES

- ☒ Highly resistant to wearing and abrasion.
- ☒ Reduces surface dust.
- ☒ Premixed, ready to use.
- ☒ Can be applied by hand, or using automatic spreading equipment.
- ☒ Coloured versions contain a high quality, durable pigment.

## STANDARDS

KingShake C100 complies with EN 13813, Class CT-C80-F7-AR1.

### BASE CONCRETE LIMITATIONS

The following concrete limitations and properties should be considered to obtain hard concrete surface with high abrasion resistance:

- ☒ The compressive strength is recommended to be higher than 25 MPa.
- ☒ W/C ratio should be at a minimum required value to achieve fully compacted concrete.
- ☒ Concrete slump should be kept between 75 mm and 120 mm.
- ☒ Cement content should be no less than 300 kg/m<sup>3</sup>.
- ☒ Proper concrete compaction and leveling is a must.
- ☒ Should free water be present at the surface this should be allowed to evaporate or brushed away before the application of KingShake C100.

\*Test was conducted based on a coverage rate of 5 kg KingShake C100/ m<sup>2</sup>.

## TECHNICAL PROPERTIES

Flexural strength: BS EN 13892-2	> 7 MPa @ 28 days
Compressive strength: BS EN 13892-2 (mortar consistency)	> 80 MPa @ 28 days
KingShake C100 aggregates hardness:	7 (Mohs scale)
Colour:	Grey, buff, green & brick red
VOC: ASTM D2369	< 1 g/ltr
Taber abrasion: ASTM D4060 fitted with H22 wheel, 1000 g/ 1000 cycle	1070 milligram
*Abrasion resistance: EN 13892 & BS 8204, Part 2	Class AR1 high abrasion resistance (less than 0.1 mm water depth)

## METHOD OF USE

- ☒ The right time to spread the KingShake C100 on concrete surface is when light foot traffic leaves an imprint of about 3 - 6 mm.
- ☒ Broadcast the KingShake C100 evenly over the surface of the base concrete. Where manual trowelling is involved, application in two stages is recommended. The first stage should be to apply two thirds of the coverage rate of KingShake C100, and allow the material to absorb moisture from concrete. When a uniform dark colour appears, indicating that the material is wet, KingShake C100 should be trowelled in, either by hand or using a power float (pan fitted with blades). Stage two is to apply the remainder of the coverage rate and to repeat trowelling. For large floor constructions KingShake C100 can be spread and trowelled satisfactorily in one stage by mechanical means.
- ☒ Care must be taken not to wet the application of KingShake C100 with water addition not to affect the overall quality of the floor.
- ☒ Proper curing should be maintained and the surface is not to be marred by the curing method.

### TIMING OF APPLICATION

Timing of KingShake C100 application is critical. Adequate machinery, labour and material should be available to complete the whole area while sufficient concrete moisture is available. Applying KingShake C100 before or after the proper application time can seriously affect the quality of the concrete floor finish.

### APPLICATION RATE



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Recommended application rates are as follows: Normal rate 3 - 5 kg/m<sup>2</sup>.

Heavy duty floors 5 - 7 kg/m<sup>2</sup>.

## PACKAGING

KingShake C100 is available in 25 kg bags.

## CLEANING

All equipments and tools should be rinsed with water immediately after use.

## STORAGE

Shelf life is 1 year when stored under cover, out of direct sunlight and protected from extremes of temperature.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult KingKrete's Technical Services Department.

## HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

## NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local KingKrete representative. KingKrete Inc. reserves the right to have the true cause of any difficulty determined by accepted test methods.

## QUALITY AND CARE

All products originating from KingKrete's Middle East facility are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, ISO 14001 and ISO 45001.

\* Properties listed are based on laboratory-controlled tests.

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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this KingKrete Inc. publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

## NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by KingKrete Inc. either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not KingKrete Inc. are responsible for carrying out procedures appropriate to a specific application.

