

KingFloor[®] WC100

Solvent free flexible two component polyurethane floor coating.

DESCRIPTION

KingFloor WC100 is a solvent free flexible two component polyurethane based floor coating; it provides a fairly smooth surface. It has excellent resistance to petrol, battery acid, diesel, brake fluid, de-icing salts, etc. Other applications include walkways, balconies, etc. KingFloor WC100 is formulated for easy application by roller or brush with excellent resistance to abrasion and chemical attack.

KingFloor WC100 is available in two types:

- 🔧 KingFloor WC100 TG for indoor applications.
- 🔧 KingFloor WC100 Plus for outdoor applications which is specifically formulated for colour stability and will not discolour on exposure to sunlight or UV light. It is available in a wide range of colours.

KingFloor WC100 can be supplied in a variety of colors and slip resistant finishes and can be produced for every demanding situation.

APPLICATIONS

Designed for interior use (KingFloor WC100 TG) and exterior use (KingFloor WC100 Plus) in parking and public places such as:

- 🔧 Car parks, traffic aisles and parking bays.
- 🔧 Restaurants, hotels, and reception areas.
- 🔧 Schools, colleges, and universities.
- 🔧 Sports halls, gymnasiums and ramps.
- 🔧 Retail environments and many more.

ADVANTAGES

- 🔧 Excellent chemical resistance.
- 🔧 Excellent resistant to petrol, battery acid, diesel and brake fluid.
- 🔧 Resistant to de-icing.
- 🔧 Flexible, can bridge minor cracks.
- 🔧 UV resistant (KingFloor WC100 Plus).

METHOD OF USE

Substrate Preparation

The substrate must be clean, dry, even, dense and free from oil, grease, dust and other contaminants. A clean surface will ensure maximum adhesion between the substrate and the coating.

TECHNICAL PROPERTIES @ 25°C:

	Wearcoat TG	Wearcoat Plus
Appearance:	Smooth gloss finish	
Colour:	Wide range of colours	
Mixed density:	1.60 ± 0.02 g/cm ³	1.35 ± 0.02 g/cm ³
Volume solids:	100%	100%
Mixing ratio: By weight	B 82 : H 18	B 67 : H 33
Working time:	60 min	20 min
Tack-free time:	4 hr	8 hr
Maximum overcoat time:	24 hr	30 hr
Full cure:	7 days	7 days
Adhesion to concrete:	> 1 MPa (Substrate failure)	
Adhesion to asphalt:	> 1 MPa (Substrate failure)	
Tensile strength:	10 MPa	9 MPa
Shore hardness: D	80	60
Application temperature:	Do not apply if the ambient or floor temperature is to fall below 5°C during the first 24 hours or if rain or condensation is likely	

Concrete floors must have a minimum compressive strength of 25 N/mm² and a maximum concrete relative humidity of 70% (max. moisture content of 3%), relative humidity can be measured using a hygrometer. Concrete relative humidity should be less than 70% for concrete 28 days old or more.

Surface Preparation

Unsound layers and contaminated concrete surfaces must be prepared using mechanical surface removing equipment. Acid etching can be used only in well ventilated areas. Areas deeply contaminated by oil or grease, such areas should be treated by hot compressed air.

Priming

KingFloor WC100 is designed to be used without a primer. However, for highly porous substrates, KingFloor Primer (Solvent free epoxy primer) is recommended.

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MIXING

KingFloor WC100 comprises two components, a resin and hardener, which are supplied pre-weighed in the correct proportions. Under no circumstances should part mixing be carried out.

Taking care to ensure that the bottom and sides are thoroughly scraped, transfer the entire contents of both components into a separate mixing container. Using a power whisk attached to a slow speed electric drill, mix for approximately 3 minutes ensuring the mixing head is pushed around the sides and bottom of the mixing container.

Important: Never mix KingFloor WC100 by hand as this could lead to areas of uncured material. Premixing of the resin component will aid mixing.

APPLICATION

On completion of mixing immediately apply KingFloor WC100 on two coats at the required thickness to KingFloor primer. The second coat should be applied within the maximum overcoat time.

SLIP RESISTANT FINISHES

Whilst the KingFloor primer is still wet, completely blind it with an appropriate grade of Aggregate with a coverage rate of 0.5 - 0.8 kg/m².

Allow the Primer to cure for the specified time then vacuum off the excess aggregate. Then the KingFloor WC100 is applied on the Anti-slip substrate with the specified coverage rate.

REMARKS

- ☐ KingFloor WC100 should not be applied onto surfaces known to suffer from damp rising or RH greater than 70%.
- ☐ KingFloor WC100 should not be applied at temperatures below 8°C.
- ☐ For temperatures above 30°C the following steps need to be done:
 - i. Material needs to be stored in a cool place away from direct sunlight.
 - ii. Equipments to be into direct contact with the material, needs to be cool.
 - iii. Application during the coolest time of the day is preferable.

CLEANING

Tools should be cleaned with Quickmast Solvent immediately after use.

PACKAGING

KingFloor WC100 TG is available in 5 and 15 kg packs.

KingFloor WC100 Plus is available in 5 and 15 kg packs.

COVERAGE

Smooth finish coverage (500 - 600 microns) KingFloor Primer: 0.25 - 0.30 kg/m²/coat.

Wearcoat TG: 0.33 kg/m²/coat.

or Wearcoat Plus: 0.28 kg/m²/coat.

Antislip coverage with Antislip Aggregate #3 (0.9 - 1 mm)

KingFloor Primer: 0.25 - 0.30 kg/m²/coat.

Antislip Aggregate #3: 2 - 3 kg/m².

Wearcoat TG: 0.6 kg/m²/coat.

Wearcoat Plus: 0.5 kg/m²/coat.

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.



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QUALITY AND CARE

® = Registered trademark of the KingKrete-Group in many countries.

All products originating from KingKrete's manufacturing facilities are manufactured under a management system independently certified to conform to the requirements of the quality standard ISO 9001.

* 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.

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