KingFloor® SL350

Self-leveling topping for floor surfaces

DESCRIPTION

KingFloor SL350 is a solvent free, epoxy-based self-leveling topping that provides floor surfaces with a seamless, hygienic and cosmetically attractive finish.

KingFloor SL350 is applied by trowel to horizontal surfaces and has very good durability towards pedestrian and vehicular traffic. It also has very good resistance to many of the chemicals commonly found in an industrial environment (consult our Technical Department for further details). It can be supplied in a variety of colours (consult our Sales Department for details).

KingFloor SL350 cures to a durable, hard wearing surface.

APPLICATIONS

KingFloor SL350 is used to provide a hygienic, dense and hard wearing surface for concrete floors for a wide range of applications such as:

- Aircraft hangars.
- Hospitals.
- Pharmaceutical factories.
- Showrooms.
- Laboratories.
- Heavy or light duty industrial plants.
- Kitchens.

ADVANTAGES

- Provides hygienic floor.
- Hard wearing system.
- Solvent free.
- Available in a wide range of attractive colours.
- Resist a wide range of chemicals, consult KINGKRETE technical department for more details.

STANDARDS

KingFloor SL350 complies with EN 13813, SR-B2.0-AR0.5- IR4.7.

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

Compressive strength: BS 6319, Part 2	≥ 85 MPa @ 7 days
Flexural strength: BS 6319, Part 3	≥ 35 MPa @ 7 days
Tensile strength: BS 6319, Part 7	≥ 16 MPa @ 7 days
Pot life:	50 - 70 min
Foot traffic:	After 24 hr
Vehicular traffic:	After 48 hr
Chemical curing:	7 days
Mixed density:	1.6 ± 0.1 g/cm³
Taber abrasion resistance: (1000 g, 1000 cycle) ASTM D4060, weight loss H22 wheel CS17 wheel	500 milligram 80 milligram
Maximum wear depth: BS EN 13892-4	0.01 mm
Impact resistance: ISO 6272-2	> 4.7 N.m
Bond Strength*: BS EN 13892-8	≥ 2 MPa
VOC: ASTM D2369	< 20 gr/ltr

Note *Provided that the substrate was primed with KingFloor Primer S.

Concrete floors must have a minimum compressive strength of 25 N/mm² and a maximum concrete relative humidity of 80% (max. moisture content of 4%), relative humidity can be measured by using hygrometers. Concrete relative humidity should be less than 80% for concrete of 28 days old or more.

Contact KINGKRETE Technical Department for further details.

SURFACE PREPARATION

Unsound layers and contaminated concrete surfaces must be prepared using mechanical surface removing equipment. In case of areas deeply contaminated by oil or grease, such areas should be treated with hot compressed air.

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PRIMING

Concrete substrates should be primed with KingFloor Primer S. The primer should be allowed to cure for 24 hours. Use lambs wool roller to apply the primer. More than one coat may be required for highly porous or textured surfaces.

MIXING

Prior to mixing, stir the individual components of KingFloor SL350, taking care to ensure that the bottom and sides are thoroughly scraped. Transfer the entire contents of the Base and Hardener into a separate mixing container.

Using a Jiffy-type mixer attached to a slow-running electrical drill, mix for approximately 2 minutes. Once mixed, transfer the entire contents into a Casco or Creteangle-type mixer, taking care to ensure that the bottom and sides are thoroughly scraped.

Start the mixer and transfer to it the entire contents of the KingFloor SL350 Filler container, taking care to ensure that these are completely dry and lump-free. Continue mixing for approximately 2 minutes.

NOTES:

- Never mix KingFloor SL350 by hand as this could lead to areas of uncured material.
- In certain cases the Base of the product can be supplied uncoloured and needs the addition of a colour pack. In such cases, mix the components of the base, hardener and colour pack using same procedure above, then add the filler component accordingly.

APPLICATION

Once mixing is complete, transfer the KingFloor SL350 to the prime surface at the required thickness by rack. Care should be taken when joining the lanes, to achieve a smooth connection. It is recommended to mask off edges with tape which is then removed while KingFloor SL350 is still wet.

FINISHING

While still wet, thoroughly spike roll the KingFloor SL350.

REMARKS

- KingFloor SL350 should not be applied on to surfaces known to suffer from damp rising.
- KingFloor SL350 should not be applied at temperatures below 10°C or where ambient relative humidity exceeds 80%.

Occassional Spillage. Chemical Resistance after full cure (7 days @ 25°C), ASTM D1308 (spot test @ 1 hr)	
Organic acids	
Lactic Acid 10%	RS + SS
Oleic Acid sat.	RS
Citric Acid 25%	RS
Inorganic Bases	
Sodium Hydroxide 50%	R
Ammonia Solution 10%	R
Potassium Hydroxide 50%	R
Aqueous Solutions	
Sodium Chloride sat	R
Tap water	R
Chlorinated water	R
Dead sea water	R
Solvents	
White spirit	R
Xylene	R
Toluene	R
Acetone	R
Oils & Fuels	
Brake fluid	RS
Engine oil	R
Diesel	R
Kerosene	R
Detergents & Soaps	R
Inorganic Acids	
Sulphuric Acid 25%	RS
Phosphoric Acid 20%	RS
Hydrochloric Acid 10%	RS
Nitric Acid 10%	R

R: Resistant RS: Resistant with slight discoloration SS: Slight softining

CLEANING

KingFloor SL350 can be removed by KINGKRETE solvent prior setting.

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PACKAGING

KingFloor SL350 is available in 19 kg packs (11.9 litre). KingFloor Primer S is available in 5 kg packs.

THICKNESS RANGE

1.5 - 3.5 mm.

COVERAGE

KingFloor SL350: Approximately 6 m²/kit @ 2 mm thick.

KingFloor Primer S: Approximately 5 m²/kg.

Actual coverage can vary depending on the substrate conditions.

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

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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.

KingKrete Middle East
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