

# KingFloor<sup>®</sup> PUMDS

## Self-leveling polyurethane floor topping.

### DESCRIPTION

KingFloor PUMDS is a three-packs solvent free flexible, polyurethane based self-leveling topping that provides floor surfaces with a seamless, hygienic and cosmetically attractive gloss finish. KingFloor PUMDS 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 PUMDS cures to a durable, hard wearing surface.

### APPLICATIONS

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

- 🏥 Hospitals.
- 🏥 Pharmaceutical factories.
- 🏥 Manufacturing & food processing Plants.
- 🏥 Showrooms.
- 🏥 Laboratories.
- 🏥 Industrial plants.
- 🏥 Kitchens.
- 🏥 Freezer rooms.

### ADVANTAGES

- 🏠 High impact and abrasion resistance.
- 🏠 Provides hygienic floor.
- 🏠 Hard wearing system.
- 🏠 Solvent free.
- 🏠 Resistant to thermal shock.
- 🏠 Available in a wide range of attractive colours.
- 🏠 Resist a wide range of chemicals, consult KINGKRETE technical department for more details.

### STANDARDS

KingFloor PUMDS complies with EN 13813, Class AR5.0, B2.0- IR10.

### 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. Concrete floors must have a minimum compressive strength of 25 N/mm<sup>2</sup> and a maximum concrete relative humidity of 80% (max. moisture content of 4%), relative

Mixed density:	1.65 ± 0.01 g/cm <sup>3</sup>
Resistance to fungal growth: ASTM G21	Passes
Pot life:	30 min
Foot traffic:	After 12 hr
Chemical curing:	7 days
Maximum wear depth: BS EN 13892-4	0.01 m
Bond strength: BS EN 13892-8 ASTM D4541	> 2 MPa (concrete failure)
Impact resistance: ISO 6272-2	> 10 N.m
Taber abrasion resistance: (1000 g, 1000 cicle) ASTM D4060, weight loss H22 wheel	600 milligram

humidity can be measured by using hygrometers. Concrete relative humidity should be less than 80% for concrete of 28 days old or more.

#### 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.

#### Mixing

Prior to mixing, stir individual components of KingFloor PUMDS. Taking care to ensure that the bottom and sides are thoroughly scraped, transfer the entire contents of the Resin and Hardener pack into a separate mixing container. Using a jiffy-type mixer attached to a slow- running electric drill, mix for approximately for 2 minutes.

Once the KingFloor PUMDS Hardener and Resin pack have been 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 PUMDS Filler container, taking care to ensure that these are completely dry and lump-free. Continue mixing for approximately two minutes.

*Note:* Never mix KingFloor PUMDS by hand as this could lead to areas of uncured material.

### TECHNICAL PROPERTIES @ 25°C:

### PRIMING

# KingFloor<sup>®</sup> PUMDS

Concrete substrates should be primed with KingFloor PUMDS Primer. The primer should be allowed to cure for 12 hours at 20°C. Use lambs wool roller to apply the primer. More than one coat may be required for highly porous or textured surfaces.

## FINISHING

While still wet, thoroughly spike roll the KingFloor PUMDS.

## REMARKS

- KingFloor PUMDS should not be applied on to surfaces known to suffer from damp rising.
- KingFloor PUMDS should not be applied at temperatures below 5°C or where ambient relative humidity exceeds 80%.

## CLEANING

KingFloor PUMDS can be removed by KINGKRETE solvent prior setting.

## PACKAGING

KingFloor PUMDS is available in 20 kg packs. (12.5 litre) KingFloor PUMDS Primer is available in 5 kg packs.

## THICKNESS RANGE

3 - 6 mm.

## COVERAGE

KingFloor PUMDS: Approximately 3 m<sup>2</sup>/kit @ 4 mm thick. KingFloor PUMDS Primer: Approximately 4 - 5 m<sup>2</sup>/kg.

## 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 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.

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

## R3-2601

### 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.