

KingFloor® PULD

Flow applied polyurethane floor topping.

DESCRIPTION

KingFloor PULD is a three-pack water based polyurethane topping that provides floor surfaces with a seamless, hygienic and cosmetically attractive matt finish. It is designed for food and chemical processing areas, dairies, breweries, etc.

KingFloor PULD is flow 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).

KingFloor PULD can be supplied in a variety of colours (consult our Sales Department for further details).

ADVANTAGES

- ☒ Resistant to thermal shock and temperatures between -15oC to 60oC at 3 mm thickness.
- ☒ Provides hygienic floor.
- ☒ Easy to clean.
- ☒ Resistant to a wide range of chemicals (consult KINGKRETE Technical Department for more details).
- ☒ Hard wearing and good impact resistance.
- ☒ Slip resistant.

CHEMICAL RESISTANCE

KingFloor PULD provides resistance to a wide range of chemicals commonly encountered in the food and pharmaceutical industries, these chemicals include:

- ☒ Acetic Acid (50%): found in spirit vinegar
- ☒ Lactic acid (10%) @ 60°C: found in milk and dairy products
- ☒ Oleic Acid (100%) @ 60°C: used in food processing as an emulsifier
- ☒ Citric Acid (25%): found in fruits
- ☒ Methanol (100%): representative of alcohols and a range of solvents used in pharmaceuticals.

KingFloor PULD is also resistant to a wide range of inorganic acids, mineral oils, fats, fuels and solvents.

Please contact KINGKRETE Technical Department for advice.

*tested at a density of 2.1 g/cm³ ** primed concrete substrate.

Note: Some staining and discoloration may occur upon contact with certain chemicals, depending on the exposure time, nature and housekeeping regime employed. This will not adversely affect the performance of the product.

TECHNICAL PROPERTIES

Mixed density:	1.65 ± 0.05 g/cm ³
Pot life:	20 - 30 min
Bond strength: ASTM D4541	> 2 MPa
Compressive strength: BS 6319-2	> 45 MPa @ 28 days
Flexural strength: BS 6319, Part 3	≥ 15 MPa @ 28 days
Tensile strength: BS 6319-7	≥ 6 MPa @ 28 days
Taber abrasion: ASTM D4060 (1000 g, 1000 cycle) H22 wheel H17 Wheel	850 milligram 70 milligram
Shore D hardness: ASTM D2240	> 80
Temperature resistance:	-15oC to 60oC @ 3 mm thickness

METHOD OF USE

SURFACE PREPARATION

The surface must be clean, dry (less than 75% RH measured by hygrometer) and free of laitance (see the KINGKRETE Guide to Surface Preparation for further details).

To ensure a good bond to the substrate, a 2 mm deep x 3 mm wide rebate should be cut around the edges of the floor, 150 mm from the walls and running parallel to them.

For treatment of surfaces containing expansion joints, consult our Technical Department.

PRIMING

Surfaces must be primed with KingFloor Primer prior to application of KingFloor PULD (see KingFloor Primer data sheet for further details).

Note: More than one coat of primer may be required for highly porous or textured surfaces.

For surfaces with RH between 75 and 85%, prime with 1 coat of KingFloor DPM and allow to dry prior to application of KingFloor Primer.

For surfaces with RH greater than 86%, prime with 2 coats of KingFloor DPM and allow the second coat to dry before priming with KingFloor Primer.

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MIXING

Taking care to ensure that the bottom and sides are thoroughly scraped, transfer the entire contents of the Grip- top LD Hardener container into the Resin container and, using a Jiffy-type mixer attached to a slow running electric drill, mix for approximately two minutes.

Once the KingFloor PULD Hardener and Resin have been mixed, transfer all the mixed material into a Casco or Crete angle 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 PULD Filler container, taking care to ensure that these are completely dry and lump-free. Continue mixing for approximately two minutes.

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

APPLICATION

Once mixing is complete, transfer the KingFloor PULD to the primed surface and, using a straight-edged steel trowel, apply it evenly.

Note: KingFloor PULD is not colour stable and may discolour on ageing and exposure to UV light, especially with light colours. This will not adversely affect the performance of the product.

FINISHING

Whilst still wet, thoroughly spike roll the KingFloor PULD.

Occasional Spillage. Chemical Resistance after full cure (28 days @ 25°C), ASTM D1308 (Spot - test @ 1 hr)	
Organic acids	
Lactic Acid 10%	R
Oleic Acid sat.	R
Citric Acid 25%	R
Acetic Acid 10%	R
Tartaric Acid 10%	R
Inorganic bases	
Sodium Hydroxide 40%	R
Ammonia Solution 10%	R
Potassium Hydroxide 50%	R
Aqueous solutions	
Sodium Chloride sat.	R
Chlorinated water	R
Solvents	
White spirit	R
Xylene	R
Oils & fuels	
Brake oil	R
Engine oil	R
Diesel	R
Petrol	R
Hydraulic oil	R
Inorganic acids	
Sulphuric Acid 25%	R
Phosphoric Acid 20%	R
Hydrochloric Acid 10%	R
Nitric Acid 10%	R
Sugar flavourings	
Sugar Solution sat.	R
Glucose Syrup sat.	R
Carbonated beverages	
Pepsi/Coca Cola	R
Miranda/Fanta	R
7UP	R
Electrochemical solutions	

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Copper Sulphate 1M	R
Zinc Sulphate 1M	R
Fruit juices	
Orange juice	R
Apple juice	R
Lemon juice	R
Fats	
Vegetable oil	R
Cleaning aids	
Dish washing liquid	R

WORKING TIME

KingFloor PULD has a working time of approximately 20 minutes at 25°C.

Note: Never leave the mixed KingFloor PULD kit to stand for any length of time prior to application as this will considerably shorten its working time.

Working Conditions

KingFloor PULD should not be applied at temperatures less than 5°C.

Curing Time

At 25°C, KingFloor PULD can be opened to heavy wheeled traffic after 24 hours.

At the same temperature, it should be allowed to cure for seven days before exposing it to chemical contamination (consult our Technical Department for details of curing times at other temperatures).

CLEANING AND HYGIENE

In order to enhance and maintain life expectancy, slip resistance and aesthetic properties, regular cleaning should be done using industry standard cleaning chemicals and equipment. Please contact KINGKRETE technical department for advice.

CLEANING

Once mixing, application and finishing are complete, tools can be cleaned with KingKrete Solvent.

PACKAGING

KingFloor PULD is available in 16 kg (9.7 litre).

THICKNESS RANGE

2 - 4 mm.

COVERAGE

Approximately 3.2 m² per kit at 3 mm thickness.

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.

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