KingFloor® AS200

Water based polyurethane anti-slip/sealer for concrete, cement screeds, resin, vinyl, wood, and parquet floors

DESCRIPTION

A KingFloor AS200 is a two component water based polyurethane anti-slip/sealer that works very effectively on internal smooth concrete, special cement screeds, wood, parquet, vinyl floorings, epoxy and polyurethane based floor coatings.

KingFloor AS200 provides a matt finish and protects floors from stains left behind from spillages (See chemical resistance table).

APPLICATIONS

KingFloor AS200 is designed for internal use in public places such as:

- Restaurant and hotel kitchens.
- Reception areas, sanitary hospital, retail stores, warehouses, and showrooms.
- Office buildings, schools, colleges, and universities.
- Sports halls, exhibition centers gymnasiums, ramps and locker rooms.
- Retail environments, shopping malls and many more.

ADVANTAGES

- Safer floors, less risk of slips or falls.
- Outstanding slip resistance; up to 50 - 60 Wet Pendulum Test Value can be reached.
- Provides excellent stain resistance.
- Rapid drying time, permits faster use of floors.
- Excellent durability.
- Slight modification of the surface roughness of the substrate; A good cleaning regime will not be different to that prior to treatment.
- Easy to maintain and to clean.
- UV Resistant (internal lighting).

LIMITATIONS

- Some proprietary cleaners are not suitable; KINGKRETE Technical department should be contacted for advice.
- KingFloor AS200 is not recommended to be applied on sealers unless adhesion and peel off tests are performed.

TECHNICAL PROPERTIES

Appearance	Matt
Colour	Clear
Mixed density	1.063 g/cm3 @ 25^{0}C
Mixed viscosity	57cP @ 25^{0}C
Pot life	> 3 hr @ 250C
Solid Content	
By volume	≈ 36%
By weight	40%
Recommended film thickness	
Concrete & screeds	160 - 200 microns wet (2 coats) 60 - 70 microns dry (2 coats)
Non-porous substrates	80 - 100 microns wet (1 coat) 30 - 35 microns dry (1 coat)
Drying time	30 - 40 min @ 25^{0}C
Time between coats	Minimum 2 hr
Light traffic (after second coat)	After 12 hr
Full cure	72 hr
Bond strength (to KingFloor EP100 and KingFloor SL350 ASTM D4541	>2 MPa (concrete failure)
Taber abrasion resistance (1000g, 1000 cycle) ASTM D4060, weight loss CS17 wheel	24 mg

- KingFloor AS200 is not recommended for use on ceramic
- tiles, stone.
- Do not leave standing water on fully cured KingFloor AS200 coat applied over concrete or cement screed for more than 2 hours.

STANDARDS

KingFloor AS200 complies with requirements of HSE Risk Assessments for Floor Safety when tested according to BS 7976-2:2002 and BS 13036-4:2011.

Method of Use

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Substrate Preparation
The substrate should be clean and free from contamination.

Concrete and screed floors
Clean concrete and screeds with a propriety cleaner.

Resin and vinyl floors
Clean vinyl floorings, resin based floor coatings using the appropriate cleaning method used for each substrate.

Wood and parquet flooring
Surfaces need to be lightly sanded prior to application.

MIXING

KingFloor AS200 comprises two components, a resin (Base "B") and Hardener "H", which are supplied pre-weighed in the correct proportions. Under no circumstances should part mixing be carried out.

The anti-slip beads may settle out in storage. Care should be taken to ensure that beads are scrapped and mixed thoroughly with the resin in the base component. Ensure the mixing head is pushed around the sides and bottom of the mixing container prior to the inclusion and mixing with the hardener.

Taking care to ensure that the bottom and sides are thoroughly drained, pour the contents of the hardener component (H) into the base (B) container. Using a power whisk attached to a slow speed mixer (100 – 300 rpm), mix for approximately 3 - 5 minutes ensuring the mixing head is pushed around the sides and bottom of the mixing container.

APPLICATION

KingFloor AS200 is applied in thin coats by medium pile lambs wool roller. It is recommended to apply two coats of KingFloor AS200 at the stated rate of application.

Pendulum Test Values (PTV): BS EN 13036-4 on different types of floors

	Health & Safety Executive Guidelines	Wet before KingFloor AS200	Wet After KingFloor AS200
Floors coated by epoxy and polyurethanes, etc.	≥ 36 PTV	8 - 20 PTV	50 - 60 PTV
Vinyl floors	≥ 36 PTV	24 - 28 PTV	50 - 55 PTV
Melamine based laminates	≥ 36 PTV	12 - 18 PTV	50 - 55 PTV
Wood and parquet floors	≥ 36 PTV	15 - 20 PTV	50 - 60 PTV
Concrete and cement screed	≥ 36 PTV	15 - 20 PTV	48 - 50 PTV

Occassional Spillage.
Chemical Resistance after full cure (7 days @ 25ºC), ASTM D1308 (Spot - test @ 1 hr)

Organic Acids	
Oleic Acid (Saturated)	R
Citric Acid 10%	R
Vinegar 5%	R
Inorganic Bases	
Sodium Hydroxide 50%	R
Ammonia Solution 10%	R
Potassium Hydroxide 50%	R
Aqueous Solutions	
Sugar Solution (Saturated)	R
Sodium Chloride (Saturated)	R
Tap Water	R
Distilled Water	R
Chlorinated Water	R
Dead Sea Water	R
Solvents	
White Spirit	SS
Xylene	SS
Toluene	SS
Methyl Ethyl Ketone	SS

The second coat should be applied at a right angle to the first coat within the minimum and maximum overcoating time to achieve the maximum adhesion between the two coats.

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NOTES

Never leave the mixed KingFloor AS200 to stand for any length of time prior to application as this will considerably shorten its working time.

Do not apply KingFloor AS200 in temperatures less than 10°C.

Contact KINGKRETE Technical Department for further details.

CLEANING

All tools should be cleaned immediately after application with KingKrete Solvent. Hardened materials must be cleaned mechanically.

PACKAGING

KingFloor AS200 is supplied in 4.5 litre packs for resin "B" component and 400 ml packs for hardener "H" component.

COVERAGE

Approximately 50 - 60 m²/pack/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.

Chemical Resistance Continued

Oils & Fuels	
Benzyl Alcohol	R
Brake Fluid	R
Engine Oil	R
Diesel	R
Kerosene	R
Detergents & Soaps	R
Inorganic Acids	
Sulphuric Acid 10%	R
Phosphoric Acid 20%	R
Hydrochloric Acid 32%	R
Nitric Acid 10%	R
In Food Processing Areas	
Vegetable Oil	R
Ketchup	R
Mayonnaise	R
Coffee	R
Tea	R
Milk	R
Fruit juice	R
Cola	R

R: Resistent

SS: Slight Softening

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

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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