KingCoat ® E200

Solvent base polyurethane resin floor and wall coating.

DESCRIPTION

KingCoat E200 is a composite system compose of two layers; epoxy primer, and a U.V resistant polyurethane top coat.

KingCoat E200 provide a hard abrasion resistance coating with outstanding chemical resistance suitable for floors, walls, ceiling and other substrates. KingFloor Primer 10, and 500P are supplied as two or three components products in pre-weighed base, hardener and/or colour packs, ready for site mixing.

APPLICATIONS

KingCoat E200 is designed for applications such as:

- Car parks, showrooms and warehouses.
- Protective coating for concrete and steel.
- Wall and floor coating in food processing plants, grain silos, dairies, breweries, hospitals, and pharmaceutical industries.
- High chemical resistant protective coating for power stations, oil refineries, and sewage treatment plants.
- Production, maintenance and assembly areas.

ADVANTAGES

- Excellent UV resistance.
- Excellent resistance to a variety of chemicals.
- Easy to clean with a smooth, hard and glossy finish.
- Exhibits good mechanical properties.
- Resistant to sewage effluents.

METHOD OF USE

Substrate Preparation

Concrete surfaces:

The Substrate should be sound, clean and free from contamination. Surface Laitance should be removed by grit blasting or water jetting. All exposed blow holes should be filled with epoxy paste using KingRep EP10.

Steel surfaces:

All surfaces should be grit blasted to reach a bright finish meeting the requirement of Swedish Standard SA 2 1/2.

TECHNICAL PROPERTIES @ 25°C

	KingFloor Primer 10	KingCoat E200P
Specific gravity:	-	1.45 ± 0.05 (forcoloured) 1.03 ± 0.05 (for clear colour)
Solid content:	-	75 ± 5% (for coloured) 50 ± 5 (for clear colour)
Colour:	-	Grey, dark grey, red, green and clear
Abrasion resistance:	-	Excellent
Bond strength: ASTM D4541-95	> 2 MPa (concrete failure)	-
Pot life:	3 hr @ 25°C 1 hr @ 35°C	4 hr @ 25°C 2 hr @ 35°C
Full cure:	10 days@ 25°C 7 days @ 35°C	After 7 days @ 25°C
Initial cure:	24 hr @ 25°C 12 hr @ 35°C	-
Chemical resistance:	-	Refer to DPC chemical resistance table
Taber abrasion resistance: (1000 g, 1000 cicle) ASTM D4060, weight loss CS17 wheel	120 milligram	-
Minimum application temperature:	-	5°C
Over coating time:	-	Within 24hrs
Volume solids:	-	50 ± 5%
Minimum time between coats:	6 hr @ 25°C 4 hr @ 35°C	-
Maximum time between coats:	24 hr @ 25°C 16 hr @ 35°C	-
Dry film thickness:	70 - 80 microns/coat	-
Water absorption: ASTM D570	< 0.1%	-
Scrub resistance: ASTM D2486/2000	> 5000 cycle	-
Adhesion: ISO 2409/1992	Excellent	-
Opacity: (Grindo pac)	5 m²/ltr	-
Mixed density:	1.30 g/cm³ @ 25°C	-

PRIMING

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Concrete substrates should be primed with KingFloor Primer 10. Use lambs wool roller to apply the primer. Work the primer well into the surface of the concrete. KingFloor Primer 10 should be applied at the rate of 0.167 kg/m² to give a dry film thickness of 75 microns.

KingCoat E200P should be applied over the primed surfaces within 24 hours, otherwise a light abrasion should be conducted on the dried primed surfaces and cleaned thoroughly before applying KingCoat E200P.

KINGCOAT E200P

Mixing

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used. Stir the content of each component separately to disperse any settlement. Add the entire content of the hardener to the base and mix for 3 minutes and until uniform color and consistency are achieved.

Application

KingCoat E200P is used as a top and UV resistant coat. KingCoat E200P can be applied by brush, roller or airless spray. KingCoat E200P should be applied at the rate of 0.145 kg/m^2 to obtain a continuous uniform coating of a dry film thickness of 75 micron.

One or two coats can be applied depending on required dry film thickness. The second coat (if needed) should be applied within the minimum overcoating time to achieve a maximum adhesion between the two coats.

CLEANING

All tools should be cleaned immediately after application using KINGKRETE Solvent. Hardened materials must be cleaned mechanically.

PACKAGING

KingFloor Primer 10 is available in 5 kg packs. KingCoat E200P is available in 7.25 kg packs.

COVERAGE

KingFloor Primer 10: 0.167 kg/m^2 to achieve 75 micron dry film thickness.

KingCoat E200P: 0.145 kg/m^2/coat to achieve 75 micron dry film 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

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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.

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