KingCoat® Primer PWB

Two component water based polyurethane floor and wall coating.

DESCRIPTION

KingCoat Primer PWB is a two component water based aliphatic polyurethane interior and exterior floor and wall coating. It provides hygienic easy to clean antifungal and antibacterial walls and floors with excellent chemical and UV resistance.

APPLICATIONS

KingCoat Primer PWB is designed for use in public places such as:

- Restaurants, hotels, and reception areas.
- Hospitals and pharmaceutical industries.
- Schools, colleges, and universities.
- Dairies and breweries.
- Food and meat processing plants.
- Retail environments and many more.

ADVANTAGES

- Rapid drying time, permits faster use of floors.
- Provides hygienic floors and walls.
- Antifungal and antimicrobial.
- Excellent chemical resistance.
- Excellent abrasion resistance.
- Excellent UV resistance.
- Excellent durability.
- Easy to maintain and to clean.
- Very good adhesion to concrete, epoxy and polyurethane floorings.

LIMITATIONS

Some proprietary cleaners are not suitable; KINGKRETE Technical Department should be contacted for advice.

METHOD OF USE

Substrate Preparation

Surface preparation is very important to get the best performance; any surface to be coated must be clean, sound and free from oil, grease, curing compound, or any contamination. Any contaminants should be removed by light grit blasting.

Surfaces containing slight surface imperfection or blowholes should be filled with a skim coat of cementitious repair mortar such as Cemfair PF.

Deep defected areas should be repaired with cementitious products from KINGKRETE Repair range.

TECHNICAL PROPERTIES

Appearance:	Available in matt and semi-gloss finishes
Colour:	Wide range of colours
Mixed density:	1.1 ± 0.05 g/cm3 @ 25ºC
Solid content*: By weight By volume	55 ± 2% 45 ± 2%
Mixing ratio by weight:	Base 4.15 kg : Hardener 0.85 kg
Pot life:	1.5 - 2 hr @ 25ºC
Recommended film thickness: Wet Dry	150 - 200 microns per coat 70 - 90 microns per coat
Drying time:	30 – 40 min @ 25ºC
Time between coats:	Minimum 2 hr @ 25ºC Maximum 24 hr @ 25ºC
Light traffic: (after second coat)	After 24 hr
Full cure:	72 hr
Bond Strength (to different repair mortar substrates): ASTM D4541	
Smooth concrete, cementious fairing coats, epoxies and polyurethanes	> 1.5 MPa (concrete failure)
PVA or Acrylic Putties	> 1.0 MPa (failure between putty and concrete surface)
Taber abrasion resistance: (1000 g, 1000 cycle) ASTM D4060, weight loss CS17 wheel	50 milligram
VOC: ASTM 2369	< 20 g/ltr (complies with LEED)

MIXING

KingCoat Primer PWB 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.

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

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APPLICATION

KingCoat Primer PWB should be diluted by up to 10% with clean water and can be applied by spray, brush or roller. It is recommended to apply two coats of KingCoat Primer PWB at the stated rate of application.

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

NOTES

- Never leave the mixed KingCoat Primer PWB to stand for any length of time prior to application as this will considerably shorten its working time. KINGKRETE Technical department should be contacted for advice.
- KingCoat Primer PWB should not be applied onto surfaces known to suffer from damp rising or RH greater than 80%.

CLEANING

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

PACKAGING

KingCoat Primer PWB is supplied in 5 kg (4.5 litre) packs and 22 kg (20 litre) packs.

COVERAGE

Approximately 23 - 30 m²/5 kg pack/1 coat to achieve 70 - 90 microns dry.

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
Acetic Acid 10%	R
Lactic Acid 20%	R
Inorganic bases	
Sodium Hydroxide 50%	R
Potassium Hydroxide 50%	R
Aqueous Solutions	R
Sodium Chloride (Saturated)	R
Chlorinated Water	R
Solvents	
White spirit	R
Xylene	R
Acetone	R
Toluene	R
Methyl ethyl ketone	R
Benzyl alcohol	R
Ethylene glycol	R
Oils & fuels	
Diesel	R
Brake fluid	R
Engine oil	R
Olive oil	R
Mineral oil	R
Inorganic acids	
Sulphuric Acid 25%	R
Phosphoric Acid 10%	R
Hydrochloric Acid 10%	R
Nitric Acid 10%	R

R: Resistant

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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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KingKrete Middle East
Qatar – Syria
www.kingkrete.com