# 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 KingRep 5.

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

## TECHNICAL PROPERTIES

*@ 25°C*

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

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## 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.

## 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 @ 25°C), 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.
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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.

**KingKrete Middle East**
**www.kingkrete.com**

Disclaimer: the IAS mark relates to certified management system and not to the product mentioned on this datasheet