

# KingProof® PEW100

Single component, water based polyester waterproofing and protective coating.

## DESCRIPTION

KingProof PWE100 is a single component, high performance waterproofing, protective coating and curing compound based on water borne hydrophobic polyester resin.

KingProof PWE100 is designed to provide a high chemical and abrasion resistance to protect concrete elements against external physical and chemical attacks such as corrosion, chloride attacks and weathering conditions.

## APPLICATIONS

- ☐ Suitable for waterproofing and protection of underground structures such as foundations, irrigation tunnels and retaining walls.
- ☐ Suitable for waterproofing and protection of exposed surfaces such as concrete roofs, balconies and bridges platforms.
- ☐ Can be used as curing compound over freshly casted concrete.

## ADVANTAGES

- ☐ Multi-purposes product, can act as waterproofing, protective coating and curing compound.
- ☐ Single component, ease to apply.
- ☐ Excellent UV stability.
- ☐ Excellent chemical resistance.
- ☐ Environmentally friendly product, free from solvent, pitch or any hazardous ingredients.
- ☐ Economical solution.

## STANDARDS

KingProof PWE100 complies with ASTM C309, Type 2, Class A and B.

## METHOD OF USE

### Substrate Preparation

The surface should be clean, dry, sound and free from oil, grease and wax contamination. Cement laitance, loose particles, mould release agent or curing membranes must be removed. Porous surfaces should be thoroughly damped with clean water 24 hours prior to the application of KingProof PWE100.

## TECHNICAL PROPERTIES

Density	1.25 ± 0.10 g/cm <sup>3</sup>
Solid content	
By Volume	45 ± 5%
By Weight	60 ± 5%
Tensile strength: ASTM D412	≥ 1.2 MPa @ 7 days
Elongation: ASTM D412	≥ 420% @ 7 days
Bond strength: ASTM D4541	≥ 2 MPa @ 7 days
Water retention: ASTM C309	Pass @ 2 coat, 5m <sup>2</sup> /litre/ coat
Water permeability: DIN 1048	Nil @ 3 bars, 72 hr

## APPLICATION

Stir the material well manually before application. KingProof PWE100 can be applied by roller, brush or squeegee. Apply the product at rate of 2.5 m<sup>2</sup>/litre/coat, if needed second coat should be applied after 6 to 8 hours (depending on the ambient conditions) of applying the first coat and in a perpendicular direction to the first coat to achieve a total of 400 microns wet film thicknesses.

## CLEANING

All tools should be washed and cleaned immediately after use with clean water. Hardened material could only be removed mechanically.

## PACKAGING

KingProof PWE100 is available in 20 litre buckets.

## COVERAGE

As waterproofing and protective coating: Two coats at 2.5 m<sup>2</sup>/ litre per coat to achieve 180 micron DFT.

As curing compound: Two coats at 5 m<sup>2</sup>/litre per coat to achieve 90 micron DFT.

## 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.



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## 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.

