KingProof® PUB200

Two component polyurethane-bitumen liquid membrane for waterproofing.

DESCRIPTION

KingProof PUB200 is a two-part polyurethane waterproofing coat extended with chemically polymerized virgin bitumen.

KingProof PUB200 has excellent adhesion to many substrates producing a highly elastic membrane with excellent chemical resistance properties.

APPLICATIONS

Waterproofing and protection of:

- Basement and foundation.
- Irrigation channels.
- Gypsum and cement boards.
- Polyurethane insulation foams.
- EPDM membrane.
- Roofs.
- Asphalt membrane.
- Under tiles of bathrooms and balconies.
- Light roofing made of metal.
- Bridge platforms.
- Planters, roof-top gardens and flower pots.
- Lining of manholes.
- Tanks containing waste water.

ADVANTAGES

- Excellent adhesion on many substrates.
- Fast curing.
- Good water vapour barrier.
- Good chemical resistance.
- Wide temperature resistance.
- Excellent mechanical properties.

STANDARDS

KingProof PUB200 complies with ASTM C836-95.

METHOD OF USE

Surface 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.

PRIMING

It is recommended to use KingProof MPU Primer with consumption of 150 to 200 gr/m^2. KingProof MPU Primer should be left for 12 - 24 hours to fully cure depending on ambient conditions.

TECHNICAL PROPERTIES

Specific gravity	0.95 ± 0.05
Tack free time:	1 - 2 hr @ 25ºC & 55% RH
Recoat time:	6 - 24 hr
Pot life	30 - 45 min @ 20ºC
Service temperature	-40 to 80ºC
Viscosity of mixture: ASTM D2196-86	3000 cp @ 25ºC
Hardness shore A: ASTM D2240, DIN 53505, ISO R868	35
Tensile strength at break: ASTM D412, DIN 52455	2 MPa @ 23ºC
Elongation: ASTM D412, DIN 52455	> 1000%
Maximum shock temperature:	150oC
QUV accelerated weathering test: ASTM G53	Passed (1000 hr)
Hydrolysis resistance (8% KOH, 10 days @ 50ºC):	No significant elastomeric property change
Chemical resistance: (5% NaClO, 10 days)	No significant elastomeric property change
Water absorption: (10 days)	< 0.9%
Thermal resistance: (200 days @ 80oC) EOTA TR011	Passed

MIXING

Mix equal volumes of the two components manually or with a low speed (300 rpm) mixer. The pot life is between 30 and 45 minutes at 20oC.

APPLICATION

KingProof PUB200 can be applied using a brush, roller or airless spraying machine. For the application using a spraying machine add 5 to 10% of KINGKRETE Solvent PU to thin the mixture. For any cracks larger than 1 mm, KingProof PUB200 can be used to close them prior to the application of the main coat.

CLEANING

All tools should be cleaned after finishing with paper towels and then wipe by using KINGKRETE Solvent PU. Do not try to clean rollers.

KingProof® PUB200

PACKAGING

KingProof PUB200 is available in 2 x 5 litre, 2 x 20 litre or 2 x 200 litre packages.
KingProof MPU Primer is available in 5 or 10 litre package.

CONSUMPTION

KingProof PUB200 should be applied at a minimum consumption of 1.0 - 1.5 ltr/m^2.

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.

CHEMICAL RESISTANCE AFTER FULL CURE ASTM D1308 (AFTER 7 DAYS IMMERSION IN THE BELOW CHEMICALS)

Organic acids	
Acetic Acid 10%	R
Lactic Acid 10%	R
Maleic Acid	R
Inorganic bases	
Potassium Hydroxide 8%	R
Calcium Hydroxide	R
Inorganic acids	
Hydrochloric Acid 3%	R
Phosphoric Acid 10%	R
Waste water	
COD (4100 mg O_2/l)	R
BOD (068 mg O_2/l)	R
Long Chain Fatty Acids (3,21 mg/l)	R
Sulphuric Acid (66,3 SO^{2-} mg/l)	R
Chlorides (31,6 mg/l)	R
Total Phosphorus (9,2 Pmg/l)	R
Anionic Surfactants (0,04 G DDBS/l)	R

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.

® = Registered trademark of the KingKrete-Group in many countries.

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KingKrete South Asia
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