

KingProof® APP200

High performance – APP modified waterproofing membrane polyester reinforced.

DESCRIPTION

KingProof APP200 is a factory preformed APP modified bituminous waterproofing and roofing membrane polyester reinforced.

Manufactured in 4 mm & 4 mm slated membranes.

APPLICATIONS

KingProof APP200 due to its high malleability, it is specially designed for effective use in the waterproofing of below grade structures, foundations, basements, plazas, as well as in new roofing, re-roofing, maintenance roofing, flashing, and anywhere a high performance waterproof membrane is required in commercial, industrial, residential, institutional and other civil engineering applications.

ADVANTAGES

KingProof APP200 is factory manufactured five layer membrane namely: polyethylene film or sand finished or slated finished facing, APP modified bitumen compound, non-woven polyester reinforcement weighing 180 grms/m², APP modified bitumen compound and flammable polyethylene base film. This balanced combination of plastomeric compound and polyester reinforcement provides KingProof APP200 membranes with excellent mechanical properties.

The polyester reinforcement provides the membrane with excellent dimensional stability and puncture resistance. The specially formulated mixture of APP modified bitumen gives the membrane:

- ☑ Excellent resistance to atmospheric agents and chemical attacks.
- ☑ High malleability to accommodate difficult applications as well as structural movements.
- ☑ High flexibility for applications at below zero temperatures with no physical strains.

The plastomeric compound and the properties of the reinforcement are carefully and correctly balanced to obtain excellent tensile strength, tear resistance, elongation and puncture resistance.

METHOD OF USE

KingProof APP200 is applied by propane gas torch to a prepared substrate.

The following are general guidelines for installation:

TECHNICAL PROPERTIES

Membrane length: EN 1848-1	≥ 10 m, (-1%)
Membrane width: EN 1848-1	≥ 1.0 m, (-1%)
Membrane thickness: EN 1849-1	4.0 mm ± 5%
Tensile strength at break: EN 12311-1 Longitudinal Transversal	650 N/ 5 cm ± 20% 550 N/ 5 cm ± 20%
Elongation at break: EN 12311-1 Longitudinal Transversal	50% ± 15 50% ± 15
Tear resistance (nail test): EN 12310-1 Longitudinal Transversal	150 N ± 30% 150 N ± 30%
Resistance to static loading: EN 12730 (A)	≥ 15 kg
Impact resistance: EN 12691	≥ 1000 mm
Dimensional stability: EN 1107-1	≤ ± 0.5%
Flexibility at low temperature: EN 1109	≤ 0oC
Flow resistance at elevated temperature: EN 1110	≥ 120oC
Watertightness (method A): EN 1928	≥ 60 kPa
Resistance to water vapour diffusion: EN 1931	20.000
Reaction to fire: EN 13501-1	Class E
Resistance to external fire: EN 13501-5	Class F roof

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PRIMING

Use D-41 PRIMER on concrete decks and up stands.

Alignment

Unroll KingProof APP200 rolls and check for alignment before bonding. Overlaps should be minimum 100 mm along the sides and not less than 150 mm at roll ends. Re-roll KingProof APP200 and prepare for bonding.

Bonding

Use propane gas torch to heat substrate and underside of KingProof APP200 membrane until the clear polyethylene film is burned away and the polymeric compound begins to melt (its color turns from shiny to matt). Press membrane firmly against substrate.

Sealing

Excess compound should be smoothed and pressed into the seam (using hot trowel).

Flashing

Flash all terminations, up stands and projections through the slab.

PACKAGING

KingProof APP200 is available in 1 x 10 meter roll size. KingProof APP200 4 mm 23 rolls/pallet.

KingProof APP200 4 mm slated 23 rolls/pallet.

AVAILABILITY

KingProof APP200 is available through authorized dealers in the area.

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

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NOTE

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