KingProof® SBS200

High performance – SBS modified waterproofing membrane polyester reinforced.

DESCRIPTION

KingProof SBS200 is a factory preformed SBS modified bituminous waterproofing and roofing membrane polyester reinforced.

Manufactured in 4 mm & 4 mm slated membranes.

APPLICATIONS

KingProof SBS200 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 any where a high performance waterproof membrane is required in commercial, industrial, residential, institutional and other civil engineering applications.

ADVANTAGES

KingProof SBS200 is factory manufactured five layer membrane namely: polyethylene film or sand finished or slated finished facing, SBS modified bitumen compound, non woven polyester reinforcement weighing 180 grms/ m², SBS modified bitumen compound and flammable polyethylene base film. This balanced combination of elastomeric compound and polyester reinforcement provides KingProof SBS200 membranes with excellent mechanical properties.

The polyester reinforcement provides the membrane with excellent dimensional stability and puncture resistance. The specially formulated mixture of SBS 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 elastomeric 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 SBS200 is applied by propane gas torch to a prepared substrate.

The following are general guidelines for installation:

TECHNICAL PROPERTIES

Membrane thickness: ASTM D751	4 mm, (±5%)
Reinforcement base of the membrane:	180 gr/ m², non-woven polyester
Softening point (Ring & Ball test) of coating mixture: ASTM D36	≥ 120°C
Penetration (DOW) of coating mixture: ASTM D5	35 - 45 dmm
Creeping of the membrane at 60⁰ slope surface at a test temperature of 100°C or 212°F during 120 hours: UEAtc	No Creeping
Impermeability of the membrane to water: UEAtc	Absolutely impermeable
Water absorption: ASTM D570	< 0.15%
Water vapour permeability: ASTM E96	Absolutely impermeable
Resistance to thermal ageing: UEAtc	No signs of deterioration after the test
Resistance to ageing due to UV-radiation: ASTM G53	No signs of deterioration after 2000 hrs.
Hydrostatic pressure resistance: DIN 1048	> 110 PSI
Tensile strength: UEAtc, ASTM D146, BS2782 Longitudinal Transversal	900 N/ 5 cm 700 N/ 5 cm

PRIMING

Use a suitable bitumen primer on concrete decks and up stands.

Alignment

Unroll KingProof SBS200 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 SBS200 and prepare for bonding.

Bonding

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Use propane gas torch to heat substrate and underside of KingProof SBS200 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 SBS200 is available in 1 x 10 meter roll size. KingProof SBS200 4 mm plain 23 Rolls/ pallet.

KingProof SBS200 4 mm slated 23 Rolls/ pallet.

AVAILABILITY

KingProof SBS200 is available through authorized dealers in the area.

TECHNICAL PROPERTIES

Elongation: UEAtc, ASTM D146, BS2782 Longitudinal Transversal	50% 55%
Load strain product: CGSB-37-GP-56M Longitudinal Transversal	62.50 55.00
Tear resistance: UEAtc Longitudinal Transversal	270 N 280 N
Puncture resistance: UEAtc Static Dynamic	L4 (25 kg. 10 mm ball – no effect) I 4 (9 joules impact energy 5 mm ball - no effect)
Lap joint strength: UEAtc Longitudinal Transversal	900 N/ 5 cm 700 N/ 5 cm
Flexibility at low temperature: UEAtc, ASTM D146, CGSB-37-GP-56M	-20°C
Service ambient temperature:	100 to -40°C
Low temperature flexibility:	-25°C

Note: The technical data shown here are the average values of tests, measurements and trials, carried out on the KingProof SBS200 Waterproofing membranes. The data may be changed, improved modified by KINGKRETE without prior notice.

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.

KingKrete Middle East
www.kingkrete.com

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