KINGKRETE®
We Create Future

KingSure®

Hot applied rubberized asphalt waterproofing membrane

DESCRIPTION

KingSure is a hot-applied rubberised asphalt waterproofing membrane that cools down to form a flexible, strong, fully adhered and monolithic waterproofing membrane with extremely high durability and resilience.

APPLICATIONS

KingSure provides the perfect waterproofing membrane for the following applications:

- Roofs.
- Bridge decks and tunnels.
- Foundation and basement walls.
- Green roofs and planters.
- Plaza decks.

ADVANTAGES

- Self-healing properties for minor punctures.
- Fully bonded to the substrate eliminating any water migration beneath the membrane.
- Thick monolithic (joint-free) waterproofing membrane.
- Highly resistant to fertilisers, acids and numerous waste chemicals.
- Tough and flexible.
- Can be applied even if the substrate contains little irregularities or has hard to reach areas.

STANDARDS

KingSure was tested in accordance with CAN/CGSB-37.50.

METHOD OF USE

Substrate Preparation

Substrate should be free from laitance or any contamination such as oil, grease, dirt or traces of surface treatment products and release agents.

Concrete substrates should be cured a minimum of 14 days. Depending on conditions (i.e., ambient temperature, humidity) the concrete may be dry enough to receive application of the membrane in less than the 14 day minimum recommendation.

SURFACE CONDITIONING

- For concrete substrates, apply KingProof B100 as a surface conditioner at a rate of 5 m²/ltr. Do not dilute KingProof B100 with water before application.
- Wood, plywood, metal or gypsum board substrates do not need to be primed.

Technical Properties	Requirements	Typical Results
Specific gravity	-	1.15 ± 0.1
Solids content	-	100%
Elongation: ASTM D5329	-	800%
Adhesion: ASTM D5329	-	No adhesion failure
Water permeability: DIN 1048 @ 5 bars, 2 mm	-	0 mm penetration
Flow @ 60°C: CGSB-37.50-M89	< 3 mm	0 mm (Pass)
Pinholing: CGSB-37.50-M89	No more than 1 pinhole	Zero pinholes (Pass)
Water absorption: CGSB-37.50-M89	< 0.35 g (gain)	0.24 g (Pass)
Low temperature flexibility (@ -25°C): CGSB-37.50-M89	No delamination, adhesion loss, or cracking	Pass
Water vapour permeance: CGSB-37.50-M89 ASTM E96	< 1.7 ng/Pa.s.m²	Pass
Crack bridging: CGSB-37.50-M89	No evidence of cracking, splitting or loss of adhesion	Pass @ 23°C
VOC: ASTM D2369	-	11 g/l
Resistance to salt water: ASTM D1308	No blistering, deterioration delamination or re-emulsification	Pass
Resistance to fertilisers: ASTM D1308	No blistering, deterioration delamination or re-emulsification	Passed with 20:20:20 Fertiliser
Resistance to acid: ASTMD1308	No blistering, deterioration delamination or re-emulsification	Passed with 30% Nitric Acid

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APPLICATION

Melt KingSure in a double-jacketed melter at a temperature between 175°C and 200°C while mixing continuously.

Apply the first coat of KingSure at 2.0 mm thickness, then apply the fabric-reinforcing sheet KingFlash H by firmly embedding it into the hot layer of KingSure. Apply the second coat of KingSure at a thickness of 3.0 mm.

Cover KingSure membrane with a 2 mm thick KingFlex rubberised sheet reinforced with fibres, overlapping adjoining edges by 60 mm.

CLEANING

All equipment should be cleaned immediately after finishing using xylene, acetone or other suitable solvents.

PACKAGING

KingSure is packaged in 15 kg blocks, one block per carton.

COVERAGE

Approximately 1.15 kg/m² per mm layer thickness.

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

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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
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