

WATERGUARD LIQUID MEMBRANE

Polymer modified bitumen based fiber reinforced flexible, liquid applied waterproofing membrane

BENEFITS

- Liquid application, easy to apply
- Water-based, free from solvents
- Resistant to ground salts
- Very low permeability
- High elasticity, ensuring a permanently flexible barrier over a wide range of temperatures
- Thermally stable - irreversible chemical cure eliminates melting and flow at high temperatures
- Excellent adhesion
- Can be applied to a range of substrates
- Outstanding resistance to oxidation and brittleness
- Fibers improve tensile strength and abrasion resistance

DESCRIPTION

WATERGUARD LIQUID MEMBRANE is a polymer-modified, water-based, bituminous, liquid-applied, fiber-reinforced flexible, dampproof, and vapor-proof liquid membrane. **WATERGUARD LIQUID MEMBRANE** is highly resistant to aggressive soils and soluble salts, providing an effective continuous barrier and protection against waterborne damage. **WATERGUARD LIQUID MEMBRANE** is also suited as a vapor/salt barrier for building facades behind granite, marble, stone cladding, and curtain wall elements. **WATERGUARD LIQUID MEMBRANE** complies with **ASTM C 836-84**.

USES

WATERGUARD LIQUID MEMBRANE is a single-component, high-performance waterproofing membrane with high elasticity and low water permeability. It is particularly suitable for a wide range of applications including wet areas, foundations, basements, terraces, retaining walls, bridge abutments, planters, inverted roofs, and remedial repairs to felt, asphalt, concrete, fibrous cement, or other roof structures when protected from exposure to direct sunlight.

PHYSICAL PROPERTIES

Color	Black
Form	One component
Specific Gravity	1.1
Tensile Strength @ 28 days	2.5 N/mm ² (ASTM D412)
Elongation at Break @ 28 days	900% (ASTM D412)
Crack Bridging @ 28 days	Up to 2 mm
Service Temperature	-30°C to +80°C
Application Temperature	+5°C to +45°C

APPLICATION INSTRUCTIONS

Surface Preparation: All substrates must be sound, clean, dry, smooth, and free from protrusions, voids, honeycombs, and high spots. The presence of curing agents, paint, and oil will impair adhesion. Moss and lichen must be removed, and the area should be treated with a fungicidal wash to kill spores and inhibit further growth. Following treatment, wash the area thoroughly with clean water and allow it to dry. Fillets must be provided at corners or sharp angles using 4:1 sand and cement mortar modified with a good quality bonding agent - **FAIRCRETE SB(L)**.

Priming: Priming is generally not required for good quality dense concrete. For enhancing the performance of **WATERGUARD LIQUID MEMBRANE**, use **WATERGUARD BITUFIX** as a primer.

Cracks: All shrinkage and non-structural cracks must be treated with not less than a 1.5 mm coating of **WATERGUARD LIQUID MEMBRANE** extending 75 mm either side of the crack. Allow curing overnight prior to general application.

Application: **WATERGUARD LIQUID MEMBRANE** should be applied by brush to obtain a continuous unbroken film. Water can be added up to 5-10% during application to adjust the consistency, depending on the atmospheric temperature and humidity. Two coats are required, with the second coat applied at right angles after the first coat has dried. **WATERGUARD LIQUID MEMBRANE** must be protected from mechanical damage during subsequent construction or backfilling works. Any damage may be repaired by spot application. Application should be avoided if substrate temperatures are below 5°C or rain is imminent.

5. Flood Test: If a water flood test is to be run, the membrane should cure for a minimum of 7 days. While **WATERGUARD LIQUID MEMBRANE** is resistant to frost,

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adhesion will be impaired if applied to frosted substrates.

Curing: Allow each coat to dry for a minimum of 24 hours before re-coating. Full cure may take up to 7 days or more depending on temperature conditions. Cold temperatures will slow cure time, while higher temperatures may speed up cure time.

Cleaning: Application equipment should be thoroughly cleaned after use with water. Spillages should be absorbed with sand, vermiculite, or similar and disposed of in accordance with local regulations.

Special Note:

1. **WATERGUARD LIQUID MEMBRANE** is recommended for properly prepared cementitious/concrete surfaces.
2. It is highly recommended that before application, the surface must be roughened mechanically.
3. It is not suitable and not recommended for application on smooth mosaic tile/ceramic and vitrified tile surfaces.

PACKING & COVERAGE

WATERGUARD LIQUID MEMBRANE is supplied in 20 kg pails. It has a coverage of 1.5 - 2 m² per kg at 1 mm WFT. Coverage rate will vary with substrate condition and profile.

Application	Number of Coats	m ² /kg
Damp proofing & protective coating for structures like bridge abutments, retaining walls, culverts, concrete/brick foundations, concrete columns, and beams	2	2
Floors	2	1.5
Walls: interior and exterior	3	2.25
Roofs: felt, asphalt, lead, zinc, aluminum, concrete, timber, slate	3	1.5

SHELF LIFE & STORAGE

WATERGUARD LIQUID MEMBRANE has a shelf life of **12 months** in unopened containers when kept in dry conditions at a temperature between 5°C and 35°C. The material must be kept in a shaded area and away from direct sunlight. Storage at higher temperatures or high humidity may reduce shelf life.

HEALTH & SAFETY

WATERGUARD LIQUID MEMBRANE should not come into contact with skin, eyes, or be swallowed. Glasses, goggles, and protective overalls should be worn during application. Refer to the Material Safety Data Sheet for further information.

SPECIFICATION

Supply and apply a liquid-applied, single-component, seamless, polymer-modified hybrid, water-based bituminous, elastomeric, fiber-reinforced flexible waterproofing membrane like **WATERGUARD LIQUID MEMBRANE** manufactured under compliance with ISO 9001, ISO 14001, and ISO 45001 (Occupational Health and Safety) certified by ISOQAR/UK. It has an elongation at break of >900% and complies with ASTM C 836-84. Tensile strength of >2.5 N/mm² and crack bridging capacity up to 2 mm, over the external surfaces of tanks at 1.5-2.0 m² per kg in 2 coats at 1 mm WFT. It is applied using a brush in accordance with the guidelines of CHEMCORE.

QUALITY ASSURANCE

Fairmate manufactures entire range of construction chemicals under compliance of ISO 9001, ISO 14001 & ISO 45001 (Occupational Health and Safety) certified by ISOQAR/UK.

TECHNICAL SERVICES

While new advances and changes will take place but one thing will never change is quality and meeting special needs of our customers. Our quality control laboratory and technical experts are available to provide additional information and technical assistance. We are eager to work with you in development of new product and resolve your problem.



Corporate Office
SAROJ HANS LLP
8/1, "SAI SUDHA", Arunoday Society,
Near Crossword, Alkapuri,
Vadodara 390 007. Gujarat, India

+91 265 2330803, 2331193, 2358173
1800 12345 34 (Toll Free)
sales@chemcore.in
www.fairmate.com



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