

Black Membrane

PU Based - Heavy Duty
Elastomeric Membrane Coating

DESCRIPTION

Cemseal Black Membrane is a PU based, cold-applied, ready-to-use liquid waterproofing membrane made from a special blend of high-quality resins and rubber. It is reinforced with water-repelling fillers, mineral stabilizers, and gelling agents to create a highly flexible and durable coating. It is ideal for protecting concrete and masonry surfaces such as walls, bathrooms, basements, bridges, terraces, decks, and even metal surfaces. It can be used in new construction or applied over existing structures to prevent water penetration.

USES

- Roof/Terrace
- Masonry Wall
- Bathroom
- Basement
- Bridges
- Terraces
- Decks
- Metal Surfaces

ADVANTAGES

- Easily adapts to uneven surfaces, forming a continuous, watertight barrier.
- Forms a highly elastic, rubber-like membrane that can withstand building movements such as expansion and contraction without cracking.
- Excellent resistance to UV rays, ozone, and oxidation thanks to advanced additives—offering longer life than standard asphalt coatings.
- Strong adhesion and wetting properties help create a long-lasting bond that resists peeling, flaking, or separation.
- Single-component, cold-applied product—no mixing or heating required, reducing labor and simplifying application.

METHOD OF APPLICATION

Surface Preparation

New and existing concrete surfaces must be thoroughly prepared by cleaning, washing, and removing dust, dirt, oil, grease, and loose particles using a wire brush or high-pressure water jet.

For old terraces with brickbat coba or screeds, check the soundness of the substrate. Hollow or damaged portions and cracked edges must be cut and removed until the mother slab is exposed. Recoat the exposed slab with a slurry made from SBR super latex and cement in a 1:1 proportion.

Crack Filling

Cracks up to 5 mm in width should be filled with KRACKFILL. Ensure all corners between the roof and parapet wall are properly sealed. For cracks wider than 5 mm, fill them using a mortar slurry modified with SBR, applied with a putty blade. Allow it to dry for 24 hours.

Waterproof Coating

Stir BLACK MEMBRANE thoroughly before use. It should be used directly from the container without dilution (except for the first coat – see below).

Apply the first coat using a brush or roller and allow it to dry for 6–8 hours.

Apply the second coat at right angles to the first using a brush or roller. Let it dry for one full day. Allow the coating to cure for 7 days before conducting a ponding test. High-pressure water jet cleaning is recommended before applying BLACK MEMBRANE. Do not apply the product on a highly water-soaked surface. Let the surface dry gently before application.

Note: It is recommended to apply the initial (first) coat with 10% water dilution after proper mixing.



Precautions

- Do not dilute the coating with water to ease application. Always stir thoroughly before use.
- Apply two additional coats on all corners, gaps, joints, protrusions, and outlets for enhanced protection.
- Avoid application during rain or in extreme temperature conditions.
- The recommended application temperature is between 10°C and 45°C.
- Prevent damage by avoiding any actions that could puncture the membrane.

TECHNICAL INFORMATION

Properties	Standard test method	Results
Appearance		Black, Smooth, Thick Paste
Specific Gravity	ASTMD 1475 -03	1.2 ± 0.10
Solid Content (%)	ASTMD 1644 -03	55 ±2 %
Tensile Set recovery, %		95 %
Service Temperature, 24 hrs. @ 120 °C		No shrinkage
Tack Free Time @ 35°C		10 -12 hrs.
Flammability & Toxicity		0.95 ±0.1
Tensile Strength	ASTMD 412 -98	0 .51 N/mm ²
Elongation @ Break	ASTMD 412 -98	> 800 %
Viscosity (spindleno: 7/ RPM 10) 25°C		50000-70000cps
Water vapour Transmission (g/h -m ²)	ASTME 96 -95	0.46
Emulsifying system		Anionic-non-ionic
Tear Resistance, KN/m		28 ±10
Chemical Resistance, % Weight Change		
-10 % Salt(Sodium chloride)		3.0
-5 % Alkali (Caustic Soda)		2.0
-5 % Acid (Sulphuric)		3.0
Drying Time @ 25°C	ASTMD 1640 -03	10 -20 min
Pack size		20 kg bucket

STORAGE

Store at temperatures between +5°C and 27°C. Keep containers tightly closed when not in use.

SHELF LIFE

12 months from the date of manufacture, provided the product is stored in a shaded area, away from direct heat and sunlight, and protected from freezing.

COVERAGE

Around 15 sq.ft. Per KG for two coats.

Coverage will vary depending on trowel notch size, type and size of tile and substrate smoothness and evenness.

HEALTH & SAFETY PRECAUTIONS

- As with all chemical products, proper precautions should be taken. Always wear suitable protective gear such as gloves and safety goggles.

INHALATION

- Avoid inhaling vapors or mist. Symptoms of exposure may include coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Move the affected person to fresh air immediately. If breathing is difficult, administer artificial respiration and provide oxygen. Seek emergency medical assistance without delay.

EYE CONTACT

- Rinse eyes thoroughly with water for at least 15 minutes and seek medical attention promptly.

INGESTION

- May cause nausea, vomiting, and loss of consciousness. Do not induce vomiting. Contact emergency medical services immediately.

SKIN CONTACT

- Wash affected skin thoroughly with water or soap and water until all residue is removed. Seek medical advice if irritation persists.

Address

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Plant 2 :Plot no 30, Marble Market Sejbahar, Rajpur, Chhattisgarh - 492015

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