

CHEMIKO GUARD MASTER WHITE

High-level quality elastomeric waterproof liquid membrane

1/1/2017



DESCRIPTION

CHEMIKO GUARD MASTER WHITE A Single component synthetic resin based waterproof coating. As it being Thixotropic and its flexibility makes it ideal for using on Vertical as well as Horizontal surfaces. Due to its white colour, it offers excellent UV Resistance & Solar reflectivity. Gives cooling effect due to the reflective properties an economical pollution free coating.

BENEFITS/CHARACTERISTICS

- Single Component, Cold Applied and Highly Elastic Rubber Like Membrane.
- Superior wetting & adhesion properties
- Unique Additives added to make it durable.
- Requires no mixing or heating, saves labour costs and application time.
- Forms an impervious & waterproof blanket. Ensures durable bond & resists peeling, chipping, hence lasts longer.
- Highly Resistance to oxidation, UV & ozone.
- Withstands expansion/contraction & deck movements, Resists Crack.

PRINCIPAL APPLICATION

Waterproofing for roofs ranging from asphalt, asbestos, cement to concrete and terrazzo tiles. Recommended for both horizontal and inclined structures. Waterproofing of roof slabs, terraces, balconies, sun shades, parapet walls, etc. Provides additional waterproofing and protection when used as base or intermediate coat in brickbat coba / IPS flooring. Waterproofing of new as well as old surfaces. Waterproofing membrane for FLAT ROOFING SYSTEMS (Traditional and Inversed)

DISCLAIMER

The above information and details herein are based on the tests conducted & experience on application and usage. The user is advised to carry out the test and take trials to satisfy on the suitability of the products and meeting his requirement considering the prevailing conditions prior to apply/ using it on larger area. As the conditions under which the products are used or transported are beyond our control. We would not hold ourselves responsible on its consequential nonperformance.

TECHNICAL DATA

Appearance	Viscous Liquid
Viscosity	50000 to 70000 CPS (thixotropic) (Spindle No: 4/7; RPM: 10/20 @ 25°C)
Specific Gravity	1.3 ± 0.10 (ASTM - D 1475-03)
Colour	White
Curing Time	Approx. 48 hours (20°C, 50% RH) (ASTM C 4125)*
Drying Time @ 25°C	Approx. 2 hours (ASTM D 1640-03)
Hardness	55 ± 5 (ASTM - D 2240-05)
Resistance to Temperature	Approx. -30 °C to +100 °C
Tensile Strength N/mm ²	2.80 (ASTM - D 412-98a)
Water Permeability	zero almost
UV Resistance	10,000 hrs No deterioration or color fade. (ASTM D 822)
Elongation Break	>300 % (ASTM - D 2370-98)
Flash Point	Non-flammable
Chemical Resistance	Good

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SUBSTRATES

- Nature of substrates: CHEMIKO GUARD MASTER WHITE waterproof membranes can be applied not only to concrete but also to wood and metal surfaces. With the latter a special primer is necessary. Roof Pitches:
- The membrane can be applied for all roofs to any extent of slope.
- Condition of substrate: Concrete and cementations substrate are to be well compacted and at least 28 days old, with toweled finish. Wood panels or metal sheeting should be solidly fixed and cleaned. All surfaces must be clean, dry and free from dust or rust and oil residue.

COVERAGE

Coverage depends upon the nature of the surface to be applied. But on average, smooth surface will give approx. 30 sq. ft. per kg (First Coat) & 27 sqft per kg (Second coat). Two coats of the product will give 300 microns dft.

IMPORTANT PRECAUTIONS

Asphalt roof surfaces to be coated with CHEMIKO GUARD MASTER WHITE must be at least one year old and load bearing. Application when rain threatens should be avoided for all substrates. The application at temperatures below 5°C will result particularly in case of thick coats, incomplete film formation and consequent reduced elasticity of the film as well as the possibility of formation of cracks in the coating. Low temperatures and high atmospheric humidity (such as fog) will slow down curing rate, and vice versa. CHEMIKO GUARD MASTER WHITE membranes are resistant to the abrasion or light pedestrian traffic. However, they can be damaged by heavy traffic, high heeled shoes and furniture, and thus should be protected by tiles, slabs, etc. in such case.

TECHNICAL DATA

Property	Value Viscous
Appearance	Liquid
Adhesion Strength (N/mm ²)	68.00 (ASTM – D 903-98)
Pull Off Test (N/mm ²)	2.70 (BS 1881: Part 207:1992)
Water Vapor Transmission (g/h–m ²)	0.97 (ASTM E 96-095)
Insulation Properties	Good

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METHOD OF APPLICATION

WATERPROOFING CONVENTIONAL ROOFS

Asphalt surfaces:

- Old asphalt surfaces and asphalt roofing felt after cleaning must be primed with CHEMIKO GUARD MASTER WHITE diluted 1:2 with sweet water. This would strengthen the weathered surfaces. Blisters in asphalt roofing felt must be cut open cross wise, dried and bonded with suitable adhesive.
- After complete drying of the primer and bonded areas, CHEMIKO GUARD MASTER WHITE is applied with brush, roller or spray gun. A brush with horse hair bristles will provide almost texture-free, smooth surfaces. Dilution up to 20% for 1st coat and 10% for 2nd coat is allowable. For spraying, CHEMIKO GUARD MASTER WHITE may be diluted with a little water. Higher dilution would lead to sedimentation and blocking of spray gun.

Terrazzo Tile Roofs:

- Damaged or washed-out joints should be cleaned and repaired or re-grouted. After thorough cleaning to remove all loose material, prime the entire surface with CHEMIKO GUARD MASTER WHITE diluted 1:2 with sweet water.
- After the primer coat is completely dried, make two coats of CHEMIKO GUARD MASTER WHITE as previously described.

Flat roofs with zero pitch:

- Flat roofs without pitch, so-called zero pitch roofs, are roof surfaces where puddles may develop and which therefore pose special problems. Puddles after curing cannot be rectified which may necessitate redoing the entire waterproofing. Hence dry weather condition is a prerequisite to help satisfactory curing and puddle free coating.
- Broom with hard bristles (example of stiff plastic) should naturally not be used for cleaning since in unfavorable conditions they may cause damage to the coating.

Metal Roofs:

- Iron or galvanized iron: remove loose paint with a wire brush. De-rust corroded areas and prime with suitable metal primers.
- Zinc or aluminum: remove loose paint with a wire brush. Remove corrosion if present and prime with solvent primer. Thoroughly remove moss and mildew with wire brush; subsequently clean the surface with a broom. After thorough drying of the primer, application CHEMIKO GUARD MASTER WHITE is carried out as previously mentioned.

Concrete Roofs:

- After cleaning the roof surfaces, prime with CHEMIKO GUARD MASTER WHITE diluted 1:2 with sweet water. After complete drying of the primer, proceed as described under asphalt roof surfaces to apply CHEMIKO GUARD MASTER WHITE .

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APPLICATION OF MEMBRANE

- Standard procedures to be followed for cleaning the substrate and primer coat application. After complete drying of the primer coat, give two coats of CHEMIKO GUARD MASTER WHITE .
- Curing for 48 hours is adequate at normal temperatures. However at low temperature conditions curing time to be extended accordingly and ensure complete curing before laying thermal insulation and mechanical protection.

THERMAL INSULATION

- 100% closed cellular structured, jointed extruded polystyrene panels are placed over the CHEMIKO GUARD MASTER WHITE continuous waterproof membrane. The thickness to be determined by the degree of insulation required.

MECHANICAL PROTECTION

- Roofs not subject to traffic:
- Fine mesh nylon sheet should be placed over the insulation before covering with washed gravel (15/30 mm gauge) to a minimal thickness of 5 cm. Where the thickness of the insulation is more than 5 cm. apply gravel to the same thickness as the insulation.
- Roofs subject to traffic:
- Protection by prefabricated concrete slabs, using wedges made from small squares of ROOFMATE 20 X 20 cm to adjust levels and allow rain water to drain under the protection.
- Protection by in-situ concrete screed: a 'KRAFT' paper protection should be placed over the insulation and topped with a concrete screed of 4 to 5 cm. thickness.

HEALTH & SAFETY

- As with all chemicals, caution should always be exercised. Protective clothing such as gloves and goggles should be worn.
- INHALATION: Inhalation of vapor or mist should be avoided. If inhaled symptoms include coughing, wheezing, laryngitis, and shortness of breath, headache, nausea, and vomiting. Immediately shift victim to fresh air, and, if needed immediately start artificial respiration. Give oxygen if breathing is laboured. Get emergency medical help.
- EYE CONTACT: Flush eyes with water for 15 minutes and call for medical help.
- INGESTION: causes nausea, vomiting, and loss of consciousness. If accidentally swallowed do not induce vomiting rather call for medical help immediately.
- SKIN CONTACT: Flush with water or soap and water till all traces have been removed. Seek medical attention if required.

STORAGE & SHELF LIFE

- Shelf life is 12 months in unopened container. Store away from sunlight and preferably below 30oC. Storage should be frost protected.

Available Packing: 1 kg, 5 kg, 10 kg, 20 kg pail, & 50 kg 200 kg Drum.

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