



Life of Construction

CLEXOCOOL-COAT

(HEAT INSULATING & ENERGY SAVING
COATING)
CECPL-1011

OVERVIEW

CLEXOCOOL-COAT coating system is a revolutionary, field applied, infrared heat-reflective coating specifically designed for roof/terrace, basements, metal roof, tiles roof and wall surfaces. It's a specially designed single part, pollution free liquid heat reflective roof insulation & waterproofing coating based on special synthetic resin. It offers superior UV resistance and high solar reflective. CLEXOCOOL-COAT helps achieving reduction of 10-15 °C in interior temperature.

PROPERTIES

- EASY TO APPLY.
- PROVIDING INSULATION OR COOLING EFFECT
- SEAMLESS, TOUGH, FLEXIBLE ELASTIC COATING.
- LIGHT WEIGHT COATING.
- HIGHLY SOLAR REFLECTIVE COATING.
- UNIQUE ADDITIVES ADDED TO MAKE IT DURABLE.
- HIGHLY RESISTANCE TO OXIDATION, UV & OZONE.
- HIGH & EFFECTIVE THERMAL EFFICIENCY.

AREAS OF USES

- Roof & Terrace
- Aluminum Sheets roofs
- Weather resistance membrane Basements
- Wooden Roofs
- Corrosion under insulation
- Walking decks & Balconies
- Commercial Buildings
- Air-Conditioned Building
- Stair ways & Pool area
- Sheds & Warehouses
- Refrigerated Cold store Facilities
- Asbestos roofs
- Mobile Modular Homes
- Green Buildings

For further details visit: www.clexoengineering.com

October 2022 – Issued by CLEXO Technical Centre,

We are driving Waterproofing administrations supplier and waterproofing workers for hire in India. We give 5 and 10 years guarantee (relies upon the material quality) on our all administrations including new and old administrations from us.

CLEXO ENGINEERING & CHEMICALS PVT. LTD. has remained an expert waterproofing administrations worker for hire on both new developments

INSTRUCTIONS FOR USE

The application temperature should be between 13°C to 45°C. Application procedures may vary slightly depending upon site conditions. The general recommended guidelines for the application of the waterproofing system are as follows:

SURFACE PREPARATION

Surface should be clean free of dirt, gravel, dust and oil. Concrete and cementitious substrate are to be well compacted and at least 28 days old, with towelled finish. Wood panels or metal sheeting should be solidly fixed and cleaned. Bio-wash for killing fungus where necessary.

METHOD OF USE

Prime the prepared surface with **CLEXOCOOL-COAT** water diluted in the ratio of 5:2. Post drying of primer, apply 1st & succeeding coats. Apply by brushes, squeegees, rollers or airless spray equipment. Allow full curing of each coat (approx 8 - 10 hrs) before next coat. **CLEXOCOOL-COAT** is water dilutable up to 10-15% for 1st coat, 10 - 15% for 2nd coat, no dilution for 3rd coat. Ensure complete curing (approx 48 -72 hours) before exposure to water. For best results, apply when surface and ambient temperatures are above 13°C and below 40°C.

APPLICATION CONVENTIONAL ROOFS

Asphalt surfaces:

Old asphalt surfaces and asphalt roofing felt after cleaning must be first primed. This would strengthen the weathered surfaces. Blisters in asphalt roofing felt must be cut open cross wise, dried and bonded with suitable adhesive.

Terrazzo Tile Roofs:

Damaged or washed-out joints should be cleaned, repaired or re-grouted and then primed.

Flat roofs with zero pitch:

Flat roofs without pitch are roof surfaces where puddles may develop and pose special problems. Puddles after curing cannot be rectified resulting in redoing the entire waterproofing. Hence dry weather condition is must to help satisfactory curing and puddle free coating.

Metal Roofs:

In case of Iron or galvanized iron: remove loose paint with a wire brush. De-rust corroded areas and prime with suitable metal primers. In case of 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.

Concrete Roofs:

After cleaning the roof surfaces, prime the surface followed by multiple coats

COVERAGE

Approximate coverage is around 25-30 sq. ft per kg/coat. 2 coats of application should generally return DFT of approx. 200-300 microns. For best results apply additional coats to get minimum of 800-1000 microns.

THERMAL INSULATION:

Place 100% closed cellular structured, jointed extruded polystyrene panels over the seamless membrane coating. The thickness depends on the degree of insulation required.

MECHANICAL PROTECTION:

Roofs not subject to traffic: Place fine mesh nylon sheet over insulation before covering with washed gravel (15/30 mm gauge) to a min. thickness of 5 cm. If thickness of insulation > 5 cm. apply gravel to the same thickness as 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 & topped with concrete screed of 4 to 5 cm. thickness.

IMPORTANT PRECAUTIONS:

Asphalt roof surfaces to be coated must be at least one year old and load bearing. Avoid application when threat of rain exists. Avoid application below 5°C as the same may result in incomplete film formation, consequent reduced elasticity of the film & risk 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. CLEXO liquid membranes are resistant to abrasion or light pedestrian traffic. However in cases of heavy traffic, high heeled shoes and furniture protect by tiles, slabs, etc. Mix/Use only the required quantity of material, which can be utilized within stipulated pot life to avoid solidification. Wash all the tools and tackles with industrial solvent immediately after the application is completed.

HEALTH & SAFETY

As with all chemicals, caution should always be exercised. avoid prolonged contact with eyes and skin. Protective clothing such as gloves and goggles should be worn. See the relevant material safety data sheet for more information.

PACKING & STORAGE

CLEXOCOOL-COAT is available in 20kg & 200kg plastic pails. Shelf life is 12 months in unpinned container. store containers in a clean dry area protected from direct Sunlight and extreme heat and cold.

TECHNICAL DATA

Product	Heat Insulating & Energy Saving Coating.		
Base	Liquid, Acrylic Synthetic Resin		
Appearance & Color	Viscous White Liquid / Lighter shades		
Solid Content %	60 ± 5 (ASTM D 1475-03)	Elongation at Break	> 300 % (ASTM - D 2370-98)
Viscosity (Spindle No: 7; RPM : 10 @ 25° C)	50000 – 70000 CPS (Thixotropic)	UV Resistance	10,000 hrs No deterioration or color fade. (ASTM D 822)
Tensile Strength N / mm²	1.99 (ASTM - D 412-98A)	Specific Gravity	1.30 ± 0.10(ASTM D 1644-03)
Adhesion Strength, N / mm²	66.00 (ASTM - D 903-98)	Pull Off Test N / mm²	2.704 (BS 1881:part 207:1992)
Hardness Shore A	55 ± 5 (ASTM - D 2240-05)	Water Permeability	Almost Zero
Chemical Resistance / Insulation Properties	Good	Flash Point	Non-Flammable
Resistance to Temperature	Approx. -30 °C to +100 °C	Water Vapor Transmission g / h-m²	0.97 (ASTM E 96-095)
Curing Time @ 35° C	Approx.48 hours (at 20°C, 50% RH)	Drying Time @ 25° C	Approx 2 hours (ASTM D 1640-03)



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PICTURES/IMAGES AT GLANCE



CLEXO ENGINEERING & CHEMICALS PVT. LTD



[An ISO 9001: 2015 Company]

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