

ROOFSEAL (Insulative Type)

A FLEXIBLE THERMAL INSULATIVE WATER PROOF COATING

ROOFSEAL (INSULATIVE TYPE) is a single component, water based high solids, elastomeric acrylic resin base coating. It is an advanced acrylic technology product, manufactured by combination of pigments, reinforcing fillers and an Australian thermal non-conductive material. On application, it forms a waterproof elastomeric seal in the form of monolithic uniform membrane that provides protection from ageing, UV rays and normal weathering. It reflects heat as well as it does not allow heat flux transmission. It reduces building maintenance cost as well as saves conditioning energy up to 25%. Its performance is more effective than that of the conventional waterproofing and protective products available in the market.

FEATURES

- Single component, easily applicable by brush, roller or spray.
- Adheres strongly to a wide variety of sound substrates such as concrete, metal, modified bitumen, wood etc...
- Tensile strength, elongation and resiliency increase durability.
- Water vapor transmission decreases maintenance cost.
- Water seal increases longevity.
- UV light protection maintains aesthetic appearance.
- Heat-not-conductive property saves conditioning energy cost upto 25%
- Unique non-conductivity (to heat-cold) property keeps the building warm in winter & cool in summer seasons.
- Prevents growth of moss, fungus
- Repels airborne pollutants and dirt that makes the surface look new for years after application.
- Lightweight-puts less stress on the building.
- Nontoxic-safe for the environment and the people applying it.
- High reflective-light reflection value of 92 at 700 nm
- Attractive color shades available, if required.

TYPICAL CHARACTERISTICS

Appearance & color	White color pasty consistency, flowing material.
Nonvolatile content % by wt.	60 ± 5
Surface drying time @ 30° C	25-30 minutes
Inter coat period at 30° C	2-3 Hours
Complete curing time at 30° C	3 days minimum
Dry time of water resistance at 30° C	4-5 Hours
Dry Film thickness	100-125 microns per coat
Coverage: Concrete	55-60 sft/kg/coat
Metal	75-80 sft/kg/coat

DRIED (CURED) FILM PROPERTIES

Hardness (ASTM D 2240)	45-55 Shore A
Tensile Strength at break (ASTM D 412)	10-15 kg/cm ²
Elongation at break (ASTM D 412)	100%
Bond Strength (ASTM C 297)	More than cohesive strength 5-20 kg/cm ² (with various substrates)
Permeability (ASTM E 398)	1.98 Metric perms @ film thickness min. 0.5mm
Service Temp. Range	-30° C to +90° C
High Temp. Resistance	+120° C
UV & weather resistance (ASTM D822, ASTM G 23)	No ageing/withstands upto 3000 hrs. Cycles (i.e. say about 10 years)
Light reflectance value	92 @ 700 nm
Roof Temp. Reduction	12° to 15° C
Flexibility	Permanent flexibility no migration or leaching out of any ingredient on exterior exposure for a longer period
Dry Film Thickness	200-250 microns/two coats

CHEMIPROTECT ENGINEERS

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END USES

Building roof, terraces and exterior walls. Industrial – factory roofing, concrete, asbestos, tile, etc Cold Storages, Electronic exchange building roof, Hospital buildings, Domestic residence etc...

DIRECTION FOR USE

SURFACE PREPARATION: Surface preparation is very important to get the best result and to avoid failure. The substrate must be sound enough, clean and free from dust, dirt, grease, oil, sludge, moss, blistered cement coating, loose plaster etc...

Thoroughly wires brush the surface to remove saturated dirt and loose partials. Wash the surface to remove dust. Allow the surface to dry completely.

PRIMER COAT

If the substrate is too old, a primer coat is required. Dilute the material in 1:1 proportion with water and apply one coat by brush or apply one coat of suggested primer. Allow the primer to dry for two hours before applying **ROOFSEAL (INSULATIVE TYPE)**

APPLICATION

Seal the cracks of parapet wall and roof by creating V groove with acrylic sealant. Allow the sealant to dry for 24 hours before applying primer.

MIXING

Mix the content of the pack within its own container by stirring with the help of wooden stick to a uniform, homogenous free flowing paste consistency.

Apply the first coat of **ROOFSEAL (INSULATIVE TYPE)** by brush or roller generously in order to plug the pores and shrinkage cracks. Allow the coating to dry for 3 hours before applying second coat. Minimum two coats are recommended. If required, additional coat may be applied. Allow the coating to dry/cure on its own, external curing is not required.

CLEANING

Tools and equipment to be cleaned with water immediately after use.

STORAGE & SHELF LIFE

Store the material in cool dry place, away from direct sun light. Shelf life of the unopened container is one year from the date of manufactured is properly stored as mention.

PACKING

1, 5, 20, 50 kg pack

PRECAUTION

Do not apply on wet or damp substrate.
Do not apply in rain
Do not dilute with water unless recommended

DISCLAIMER

The above information and details are based on the tests conducted & experience on application & usage. The user is advised to carry out the tests & take trials to satisfy on the suitability of the product and meeting his requirements considering the prevailing conditions prior to applying/using the product on larger area. As the conditions under which the products are used or transported are beyond our control, we do not hold ourselves responsible on its consequential non-performance.

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