

ACRYLIC CO-POLYMER SOLAR HEAT REFLECTING WATERPROOF MEMBRANE

Description

Isoplus Cool Roof is pure acrylic polymer based elastomeric high build solar heat reflecting eco-friendly membrane for roof and exterior walls. The cooling effect is designed with high quality titanium di oxide pigment which reflects more than 80% of solar radiation and specialty micronized ceramic additives which reduces heat transmission inside the room. The cured Isoplus Cool Roof also acts as high performance waterproof membrane. When it is applied on exterior side walls and roof it reduces energy cost approximately 30%.

The cured membrane has outstanding elasticity and very high tensile strength to accomodate roof movement. A very high shore hardness coupled with excellent adhesion to concrete and metal surfaces makes Isoplus Cool Roof an ideal choice for all types of substrates. The coating is available in shade of white. Grey and other colours are available on request.

Advantages

- Weatherproof, protective and decorative.
- Easy to apply, solvent free, one component system.
- Can be used on concrete, light weight concrete ,PU foam, asbestos, cement, Zinc, GI Steels, Timber etc.
- Excellent adhesion to concrete surfaces while allowing concrete to breathe moisture naturally.
- Highly flexible. Can absorb extreme temperature variations / roof traffic without cracking or tearing.
- Excellent thermal insulation.
- Highly resistant to chemicals. Anti carbonation coating and resistant properties.
- Resistant to ultra-violet rays.
- Non-toxic-ideal for potable water tanks
- Good resistance to Carbon dioxide and Chloride ion diffusion
- Will increase the life of concrete structures.

Properties

Specific Gravity : 1.2 +/- 0.05 at 23 degrees

Elongation at Break : 500%

Weather resistance : No evidence of cracking, Deterioration & loss of Flexibility

Service Temperature : 20 to 110 degrees centigrade

Tensile strength : 1.38

Pull off Adhesion: 0.82

SRI Value : >100 (under testing)

Shelf life : Upto 1 year when stored in dry place

Curing : Touch dry - 1 hour; Complete dry - 5 hours

Application Instructions

Preparation

All the surfaces which are to receive Isoplus, must be free from oil, grease, wax, dirt or any other form of foreign matter which might affect adhesion. Spalled and deeply disintegrated concrete should be removed to sound concrete and repaired with Quickroc System.

Application

All cracks must be thoroughly repaired. Prime the surface with Isoheal. Following thing Isoplus shall be applied in two coats at right angles to each other by brush, roller or spray. The second coat of Isoplus shall applied as soon as the first coat has reached touch dry state (4-6 hours). Mesh/Geotextile can be used as a sandwich layer for extra reinforcement.

Coverage

This depends on the site conditons. The approximate coverage per pack at even consistency (1 mm thickness) is as follows :

Isoplus CR - 20-25m²/20L in two coats

Allowances should be made for any possible wastages when estimating.

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Subsequent Finishes

Isoplus provides an aesthetically pleasing surface finish texture depending on the method of application, and does not normally require any further surface finishes.

Isoplus is however compatible with most forms of subsequent coatings.

Cleaning

Isoplus should be removed from tools and equipment immediately after use with clean water. Hardened material can be removed mechanically.

Packaging

Isoplus CR is supplied as a package of 1L, 5L and 20L cans. White and Ivory are available colours. Special colours are available on request and larger packaging for bulk orders.

Storage

Isoplus has a shelf life of 12 months in unopened packs, if kept in a dry store. In high humidity locations, the shelf life may vary. Prevent Isoplus liquid from freezing.

Precautions

Health and Safety instructions

Isoplus is non-toxic but it is alkaline in nature. Gloves and goggles is recommended to be worn. Any splashes to the skin or eyes should be washed off with clean water. In the event of prolonged irritation, medical advice should be sought.



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Important Note

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