



Thermal UV - 500

Polymer Aqueous Dispersion based high quality water proofing Acrylic Membrane.

Description:-

Thermal UV – 500 in a special polymer aqueous dispersion based acrylic water proof coating membrane. Because of its excellent flexibility and thixotropic nature is an ideal for use on vertical as well as horizontal surfaces. It is single pack, very economical and pollution free water proof coating. Due to its white color, it has excellent solar insulation capacity.

PRODUCT DATA:-

Solid Content	65 + , -1%
Color	White
Viscosity	Thixotropic
Density Kg/Ltr	Nil
Hardness Shore A	1.0 % to 1.50%
Elongation Break	55
Resistance to temperature	Approx...450 % at 20° C
Water Permeability	Almost Zero
Solar Reflection Insulation	Excellent
Insulation Properties	Good

Principal Application:

- Waterproofing for roofs ranging from asphalt, asbestos cement to concrete and terrazzo tiles Recommended for both horizontal and inclined structures.
- Waterproofing membrane for flat Roofing System (Traditional & inverted)

Important Precautions:

Asphalt roof surface to be coated with UV -500 must be least one year old and load bearing. Application when rain threatens should be avoided for all substrates. The application at temp below + 5°C will result. Particularly in case thick coats, in incomplete film formation and

Consequent reduces elasticity of the film as well as the possibility of formation of cracks in the coating.

Method of Application:- Water Proofing Conventional Roofs.

- Old asphalt surfaces and a half roofing felt after cleaning must be primed with UV – 500 Diluted with 20 % sweet water. This would strengthen the weathered surfaces. Blister in asphalt roofing felt must be cut open cross wise, dried bonded with suitable adhesive.
- Damaged or wasted – out joints should be cleaned and repaired with Flow Grout -702. After thorough cleaning to remove all loose material, prime the entire surface 20 % diluted UV -500 after the prime is completely dry, the substrate is coated with UV – 500 as previously described.

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 necessitate which necessitate redoing the entire waterproofing. Hence the dry weather is a prerequisite to help satisfactory curing and puddles free coating.

Metal Roofs:

- Iron or galvanized: remove loose paint with wire brush. Derust corroded areas and prime with suitable metal primers

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- Zine or aluminum: remove loose paint with 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 through drying of the primer, application of UV – 500 is carried out as previously mentioned.
- Concrete roofs: after cleaning the roof surfaces, prime with 20% sweet water diluted UV – 500 after complete drying of the primer, proceed as described under asphalt roof surfaces to apply UV – 500.

Advantages:-

This improvised method overcomes the limitation of traditional method and future has the following method:

Suppression of the vapor barrier.

Waterproofing membrane protected by insulation.

Waterproof membrane no longer subjected to UV rays.

Double mechanical protection (insulation and protection)

Waterproof membrane, serving as 'curing' of treatment, slowing the evaporation of water contained in the concrete roofs slabs, essential in hot climates.

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 coat of UV -500 at the rate of 0.8 kg. Per sq. met. Making a total of 1.5 kg to 2 kg per.sq.mt including the primer.

Curing for 48 hours is adequate at normal temperatures. However it low temperature condition 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 UV – 500 continuous waterproof membrane. The thickness to be determined by the degree of insulation required.

Storage:

Minimum 12 months is unopened container, extended to two years if stored right. Stored away from sunlight and preferable below 30 Celsius. Storage should be frosty protected.

Shelf Life:

Best for using within one year.

Packing:

Is available in 16 kg. Pail.

Material & Formulation.

All materials imported from **Germany, China Dubai** & formulated in Pakistan.

“Contact us to discuss any potential requirement and you will be assured of a rapid and effective response – that’s guarantee!!”

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