

ZC-ROOF GFM

TERRACE / ROOF WATERPROOFING **BASED ON MEMBRANE COATING SYSTEM**

ZC-ROOF GFM is designed to protect surface of the building terrace & roof from water & weathering effect.

It is developed for complex/critical applications where conventional waterproofing/ weatherproofing products cannot be used or applied. In these areas waterproofing products like polymer admixtures, repellent, adhesives, general purpose coating and sealants do not perform effectively for long time. In such applications the product should withstand heat, UV effects, expansion & contraction, gravity settlements, shrinkage and ageing effects. The product should be long lasting & should remain elastomeric and active permanently.

Applications

Substrates material : Cementitious substrates, asbestos cement, insulation materials, metal substrates, wood & plywood, bricks & stones, slates & tiles, plastics, bituminous coatings, paints, mastics, asphalt & felt.

Substrate/structure types : Concrete/plastered roofs & walls, corrugated sheets, terrace gardens, parapets & chhajjas, drain sections, expansion joints, ventilation outlets, J hooks & screw overlaps, lighting fixture mountings, roofing junctions.

Type of construction : Residential buildings, commercial buildings, Manufacturing units, malls, warehouses, nuclear power structures, theatres.

Components of the System :

1. **ZC-Sealcoat**: Acrylic based elastomeric high performance coating emulsion. It is single component and ready to use formulation with quick drying properties. It is water repellent with toughness to arrest leakage and seepage of water. It protects the surface of UV radiation. It has got excellent adhesion to substrate and elongation of 200%. It has very good impact strength and withstands extreme temperature.
2. **ZC-ROOF GFM** : ZC-ROOF GFM (Glass fibre matt) is supplied by Owens Corning India Ltd. and it is made of glass fibre chopped strands. It is incorporated in this system because if the treated surface has foot traffic then plastic coating alone may not withstand the ware and tare. On the surface where no foot traffic incurs the ZC-ROOF GFM need not be applied. However it is strongly recommended to use ZC-ROOF GFM for long lasting effectiveness and toughness.
3. **ZC-Elastofalt** : ZC-Elastofalt is a thixotropic cold applied polymer modified bituminous coating. It has very high adhesion strength. It protects the surface

Note : These suggestions and information are offered in good faith but without gurarantee as conditions and methods of use are beyond our control, Hence it is desirable for the prospective customer that they determine the suitability of the products and suggestions before commercial usage.

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from water & weathering effects. The elongation is 900% and forms very good film on the substrate. It can be applied on any surface except ceramic tiles & metal.

4. **ZC-Elastoprime**: ZC-Elastoprime is a primer or bond coat for surfaces like tiles or china mosaic chips. ZC-Elastofalt or ZC-Sealcoat do not easily adhere to the substrate like tiles or china mosaic chips. On such substrate it is essential to give bond coat of ZC-Elastoprime, which is actually ZC-Elastofalt diluted with water in the ratio 1:1.

Advantages

Single component, multiplayer, solvent free
Can be applied to different type of substrate
No strong odour or toxic fume
Fast curing & drying
High tensile & elongation strength
Permanently elastomeric and ageing proof
Application by brush/roller/spray
Absorbs rainfall sound

Benefits

Ready to use, simple application
Long lasting reliability
Does not crack or brittle
UV/Heat resistance
Crack bridging capability
Traffic resistance
Resistance to algae growth
Reduces sound transmission

Surface Preparation

Surface should be clean & dry. All the surface lying water, mould growths, moss or other vegetation, loose debris etc. should be removed prior to application. Ensure that surface is free from visible dampness, dust. Dirt and other form of contamination should be removed prior to application.

The surface to be treated should be in good condition, like plaster, concrete should not be deteriorated or debonded. The paint should not be in peeled off condition. The metal surfaces should not be rusted or torn. The wood and plywood should not be grained or expanded. The asbestos sheets and brick should not be in cracked condition. The tiles and plastic surfaces should not be in cracked or broken condition.

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Application procedure

ZC- ROOF GFM coatings can be applied by brush or spray. Given below application procedure of standard system

Procedure of application on horizontal surfaces :

A) For 5 years guarantee

1. Clean the surface thoroughly
2. Apply first coat of ZC-Elastofalt
3. Fix the Glass fibre matt immediately on first coat of ZC-Elastofalt
4. After 4 hours apply 2nd coat of ZC-Elastofalt on matt.
5. After minimum 12-15 hours apply first coat of ZC-Sealcoat. Dilute with potable water to the extent of 20%
6. After 6-10 hours apply 2nd coat of ZC-Sealcoat. Dilute with potable water to the extent of 10-15%

After 24 hours the surface is ready for use.

B) For 10 years guarantee

1. Clean the surface.
2. Apply first coat of ZC-Elastofalt
3. Fix the Glass fibre matt immediately on first coat of ZC-Elastofalt
4. After 4 hours apply 2nd coat of ZC-Elastofalt on matt.
5. After minimum 12-15 hours apply 3rd coat of ZC-Elastofalt
6. After minimum 12-15 hours apply first coat of ZC-Sealcoat. Dilute with potable water to the extent of 20%
7. After 6-10 hours apply 2nd coat of ZC-Sealcoat. Dilute with potable water to the extent to the extent of 10-15%
8. After 6-10 hours apply 3rd coat of ZC-Sealcoat. Dilute with potable water to the extent to the extent of 10-15%

Procedure of application on vertical surface (wall)

For 5 years guarantee

1. Clean the surface thoroughly and remove loose particles
2. Apply first coat of ZC-Elastofalt
3. After 6-10 hours apply 2nd coat of ZC-Elastofalt.
4. After 12-15 hours apply first coat of ZC-Sealcoat.
5. After 6-10 hours apply 2nd coat of ZC-Sealcoat.

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