



DOLPHIN AQUAFIX WATERPROOF

DOLPHIN AQUAFIX WATERPROOF is special synthetic resin based waterproof coating. Because of its excellent flexibility and thixotropic nature is an ideal for use on vertical as well as horizontal surfaces.

TECHNICAL PROPERTIES



Properties	Test Method	Unit	Specifications
Color	Lab Test	Visually	White
Appearance	Lab Test	Visually	Smooth Paste
Curing Time	Lab Test	Hours @ 25°C	48 (Approx.)
Hardness, Shore A	ASTM D 2240	Points	50 - 60
Specific Gravity	ASTM D 1475	g/cm ³	1.30 ± 0.15
Tensile Strength	ASTM D 412	N/mm ²	1.99
Elongation Break	ASTM D 412	%	>300
Viscosity @ 25°C, S6, rpm-20	ASTM D 2196	cPs	30000-50000
Shelf Life	Lab Test	Months	12
Water Permeability	Lab Test		Almost zero
Adhesion Strength	ASTM D 903	N/mm ²	66

Note:

** Curing time may vary depending on climatic condition during application.*

** Information on this data sheet is subject to change without prior notice and should not be used for writing specifications.*

TYPICAL USES

- Waterproofing for roofs.
- Vapor barrier coating for walls and floor.
- Waterproofing for roofs ranging from asphalt, asbestos cement, to concrete and terrazzo tiles.
- Recommended for both horizontal and inclined Structure.
- Can be applied not only to concrete but also to wood and metal surface.
- Waterproofing membrane for flat roofing systems (Traditional and Inversed)

KEY FEATURES

- Environmentally safe.
- Easy application.
- Excellent UV Resistance.
- Suitable to most of the surfaces.
- Good coverage.
- Resistant to the abrasion or light Pedestrian traffic.

PREPARATION

Concrete and cementations substrate to be well compacted and at least 28 days old with toveled finish. The surface must be clean, dry and free from dust. Wood panels or metal sheeting should be solidly fixed and the cleaned. Dry and free from dust or rust and oil residue. Asphalt roof surfaces must be at least one year old and load bearing.



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APPLICATION INSTRUCTION

WATERPROOFING CONVENTIONAL ROOFS

Asphalt surfaces: Old asphalt surfaces and asphalt roofing felt after cleaning must be primed with DOLPHIN AQUAFIX WATERPROOF diluted with 20% water. This would strengthen the weathered surfaces. Blisters in asphalt roofing felt must be cut open cross wise, dried and bonded with suitable adhesive. After complete drying of the primer and bonded areas, DOLPHIN AQUAFIX WATERPROOF applied with brush, roller or spray gun. A brush with horse hair bristles will provide almost texture-free, smooth surfaces. For spraying, DOLPHIN AQUAFIX WATERPROOF may be diluted with a little water. Higher dilution would lead to sedimentation and blocking of spray gun.

Terrazzo Tile Roofs: Damaged or washed-out joints should be cleaned and repaired or re-grouted. After thorough cleaning to remove all loose material, prime the entire surface with 20% diluted DOLPHIN AQUAFIX WATERPROOF. After the primer coat is completely dried, then make two coats of DOLPHIN AQUAFIX WATERPROOF previously described.

Flat roofs with zero pitch: 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 may necessitate redoing the entire waterproofing. Hence dry weather condition is a prerequisite to help satisfactory curing and puddle free coating. Broom with hard bristles (example of stiff plastic) should naturally not be used for cleaning since in unfavorable conditions they may cause damage to the coating.

Metal Roofs: 1st) Iron or galvanized iron: remove loose paint with a wire brush. De-rust corroded areas and prime with suitable metal primers. 2nd) 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. After thorough drying of the primer, application of DOLPHIN AQUAFIX WATERPROOF carried out as previously mentioned.

Concrete Roofs: After cleaning the roof surfaces, prime with 20% water diluted DOLPHIN AQUAFIX WATERPROOF. After complete drying of the primer, proceed as described under asphalt roof surfaces to apply DOLPHIN AQUAFIX WATERPROOF.

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 coats of DOLPHIN AQUAFIX WATERPROOF at the rate of 0.850 kg. per sq. mtr. making a total of 1.5 to 2 kg. per sq. mtr. including the primer. Curing for 48 hours is adequate at normal temperatures. However at low temperature conditions curing time to be extended accordingly and ensure complete curing before laying thermal insulation and mechanical protection.



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THERMAL INSULATION

100% closed cellular structured, jointed extruded polystyrene panels are placed over the DOLPHIN AQUAFIX WATERPROOF continuous waterproof membrane. The thickness to be determined by the degree of insulation required.

MECHANICAL PROTECTION

Roofs not subject to traffic:

Fine mesh nylon sheet should be placed over the insulation before covering with washed gravel (15/30 mm gauge) to a minimal thickness of 5 cm. Where the thickness of the insulation is more than 5 cm. apply gravel to the same thickness as the 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 and topped with a concrete screed of 4 to 5 cm. thickness.

COVERAGE

Coverage depend upon the nature of the surface to be applied. On average, smooth surface will give First Coat - 350 gm/sq.mtr. & 300 gm/sq.mtr. (Second coat) Two coats will give ½ mm dry film thickness.

PACKAGING

DOLPHIN Aquafix Waterproof is available in 5 kg bucket, 10 kg bucket and 20 kg bucket.

STORAGE AND SHELF LIFE

Store away from sunlight and preferably below 30°C. Storage should be frost protected. **DOLPHIN Aquafix Waterproof** has 12 months shelf life if stored in required conditions.

HEALTH AND SAFETY

As with all chemicals, caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Inhalation of vapor or mist should be avoided. If inhaled symptoms include coughing, wheezing, laryngitis, and shortness of breath, headache, nausea, and vomiting. Immediately shift victim to fresh air, and, if needed immediately start artificial respiration. Give oxygen if breathing is labored. Get emergency medical help. In case of eye contact, flush eyes with water for 15 minutes and call for medical help. Ingestion causes nausea, vomiting, and loss of consciousness. If accidentally swallowed do not induce vomiting rather call for medical help immediately. For skin contact, flush with water or soap and water until all traces have been removed. Seek medical attention if required.

KEEP OUT OF REACH OF CHILDREN.

KEEP OUT OF REACH OF CHILDREN • KEEP CONTAINER TIGHTLY CLOSED • FOR INDUSTRIAL & PROFESSIONAL USE

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