

ISOTECH EMULSION WATER BASE (WB)

Moisture Barrier Bitumen Emulsion Coating

ISOTECH WB is a liquid bitumen emulsion coating which dries off to form a tough yet flexible moisture barrier protective coating. It is a superior quality coating manufactured by using a blend of high quality bitumen compound and selected mineral fillers. The product is VOC free and is extremely low on emissions. Being highly thixotropic and easy to apply, makes the product highly suitable for application on concrete surfaces as a moisture barrier coating.

CHARACTERISTICS

- VOC free. No health or environmental hazard.
- Odorless. Safe to apply in poorly ventilated or confined areas.
- Easy to apply. Cold applied. No additional heating is required.
- Highly thixotropic. Can be applied at high thickness on vertical surfaces without any sag or flow.
- Good resistant to soil chemicals like chlorides and sulphates.
- Good adhesion on most substrates.
- Non- flammable.
- Conforms to ASTM D 1227, Type III, Class 1.

AREA OF APPLICATION

- Concrete foundations which are above the water table.
- Block works.
- Building facades prior to cladding.

METHOD OF APPLICATION

ISOTECH WB coating shall be applied as per the following general method of application:

A. Conditioning and preparation of substrate:

The performance and ultimately the durability of the coating largely depends on the condition of the substrate on which it is coated on. Therefore, conditioning and preparation of the substrate is of utmost importance prior to the application of the coating.

The surfaces shall be thoroughly cleaned to remove all loose flakes, dust particles and cement laitance (for new concrete). Surface defects like potholes and pinholes on building facades on the concrete shall be repaired with an appropriate concrete repair mortar.

B. Application

On new concrete surface the bitumen coating can be

applied directly without applying a priming coat. However, it is highly recommended to apply a priming coat on all old and highly porous substrates for improving the adhesion of the subsequent coats.

The priming coat can be prepared in the work site by diluting the bitumen coating with 20% clean potable water. The diluted coat shall then be mixed thoroughly with a proprietary paddle mixer to ensure homogeneity of the mix.

Primer application can be done by a brush or roller. On large areas the application may be done by an airless spray gun. The applied primer should be allowed to dry before applying subsequent coats. The primed area shall be re-primed if there is a delay in the application of the top coat for more than 24hours.

ISOTECH WB application is done by a suitable applicable roller or brush. Large area application may be done by an airless spray gun. When applying by airless spray, the emulsion coating has to be diluted and brought to the appropriate consistency for proper application.

When applying multiple coats, all subsequent coats shall be applied when the previous coat has dried off completely.

C. Cleaning

Clean all tools after use with clean water. Hardened material can be cleaned with a solvent.

NOTE:

a) Being water based the bitumen in the pail or drum has a tendency to sediment when stored for long durations. Therefore, it is recommended to stir the pail with a mixing paddle or roll the un opened drum on the ground for a few minutes to remove all sediments.

b) In hot climatic areas, some amount of water may evaporate out during storage. This may make the coating quite viscous and difficult to apply. Additional water up to 5% may be added at the work site to improve the application consistency.

COVERAGE RATE

Moisture vapor barrier coating for building facades.	4 m ² /l per coat
Damp roofing of block work and concrete foundations	1 m ² /l per coat

STORAGE & SHELF LIFE

ISOTECH WB pails or drums should always be stored in dry and shaded areas. The product should not be kept exposed to direct sunlight or kept near to any source of heat.

The product Shelf life is up to 24 months when stored as per recommendation. Failure to comply with the recommended storage conditions may result in premature deterioration of the product.

PACKAGING

ISOTECH WB is available in 15 litres pail and 200 litres drum.

HEALTH & SAFETY

ISOTECH WB is a VOC free product. Therefore, the product is non-hazardous to health and environment. However, as a precautionary measure and to avoid sticking of the bitumen to hands and skin, it is recommended to use gloves and safety goggles.

In case the bitumen stains on skin or splashes to eyes, wash the affected area with plenty of fresh water immediately.

In critical cases seek medical assistance.

TECHNICAL SPECIFICATION

Properties	Values	Test Standard
Form	Thick viscous liquid	-
Color	Dark brown	-
Density, g/cc	1.02 ± 0.02	ASTM D 1475
Solid content	30 ± 2%	ASTM D 1644
Firm set @25°C	24 hrs	-
Application temp	5°C to 50°C	-
Service temp	-5°C to 85°C	-

isotech