



BITU EMULSION

ANIONIC BITUMEN EMULSION



DESCRIPTION

BITU EMULSION is an easy to apply anionic bitumen emulsion designed for use as a general- purpose damp proofing for concrete. It is formulated with a harder base (lower penetration) for use in warmer climates. Bitumen content of between 57-65% and viscosity of 20-100 SFS can be produced as per client requirement.

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
- Good resistant to soil chemicals like chlorides and sulphates
- High resistance to re-emulsification
- Good adhesion on most substrates
- Non-flammable
- Conform to requirements of ASTM D 1187

APPLICATION

- General waterproofing on concrete, brick, slate, tile and metal surfaces
- Concrete foundation which are above the water table
- Block works
- Building facades prior to cladding

HEALTH / SAFETY

BITU EMULSION is a VOC free product. It 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 stain on skin splashes to eyes, wash the affected area with plenty of fresh water immediately.

TECHNICAL DATA

Property	Requirement		Test Method
	Min.	Max.	
Appearance	Brown Liquid (Wet) Black Film (Dry)		Visual
Saybolt Furol Viscosity @ 25°C, sec	20	100	ASTM D88
Density @ 25°C, Kg/L	0.99	1.05	ASTM D244
Residue by distillation (as per client requirement), % Mass	58	68	ASTM D2939
Ash Content, %	-	3.8	ASTM D2939
Flexibility, 1hr @25°C	No Cracking		ASTM D1187
Adhesion to Dry Surface	Excellent		-
Resistance to mild acids and alkalis	Excellent		-
Coverage rate	4-6 m ² /L On smooth Concrete 6-10 m ² /L On metal surfaces		

SUPPLY, STORAGE & SHELF LIFE

BITU EMULSION is available in 16 or 18 Kg pails and 200 Kg drums. 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 12 months when stored as per recommendation. Failure to comply with the recommended storage conditions .

METHOD OF APPLICATION:



A. Conditioning and preparation of substrate:

The surfaces should 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. Do not start application when raining or there is impending rain.

B. Priming:

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 of **BITU EMULSION** diluted with 50% clean sweet water on all old and highly porous substrates for improving the adhesion of the subsequent coats.

C. Topcoat:

Application of **BITU EMULSION** is done by a suitable applicable squeegee or brush. Wet the brush and roller before use. The coating shall be applied in a minimum of 2 coats for optimum performance. The coverage rate will vary depending on the area of application and the nature of protection required. When applying multiple coats, all subsequent coats shall be applied when the previous coat has dried off completely.

E. Drying Time

Dry to touch : 2-4 hours

Overcoat after : 1-2 hours

Full Dry : 8 hours

*Depending on humidity and temperature

F. Cleaning

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

NOTE:

It is recommended to stir the pail with a mixing paddle or roll the unopened drum on the ground for a few minutes to remix all sediments. If the coating is quite viscous and difficult to apply, additional water up to 5% may be added at the work site to improve the application consistency.