

MCRYL BITU-P

HIGH PERFORMANCE Aliphatic Polyurethane MODIFIED LIQUID WATERPROOFING MEMBRANE

MCRYL BITU-P is a high performance, ready to use, cold applied, single component, elastomeric high build liquid waterproofing membrane, based on Aliphatic Polyurethane modified bitumen emulsion. MCRYL BITU-P forms a seamless, highly elastic and durable film that adheres well to most of the common substrates e.g. concrete, cement blocks, wood, existing roof felts. MCRYL BITU-P is highly resistant to chlorides and sulphates commonly present in the soil. It is also highly UV resistant.

Uses

For waterproofing of:

- New roofs.
- Balconies, terraces, parking garages, asbestos and concrete roofs.
- Industrial washrooms & shower
- Water reservoirs and swimming pools.
- Foundations, cellar walls, retaining walls, bridges abutments.
- Refurbishing of old waterproofing system including torch-on membrane.
- Facade damp proofing.
- Water proofing/Curing membrane and protective coating for sub structure.

Features

- Single component and cold applied.
- MCRYL BITU-P has excellent UV resistance and long term ageing stability.
- Cured membranes from MCRYL BITU-P remain highly flexible even at extremes of temperatures (-25°C to 120°C).
- Excellent vapor barrier.
- Easy to use.
- Non-flammable and Non-toxic
- Environment friendly.
- Resistant to chlorides and sulphates commonly present in the soil.
- Compatible with cementitious tiling adhesive.

Typical product characteristics

Appearance	:	Thixotropic black emulsion dries to a black Flexible protective membrane.
Non-volatile content	:	65% min
Rubber Content on dry film	:	Approx. 15%

Elongation (ASTM D 412)	:	900% approximately
Ultimate tensile strength; (ASTM D 412)	:	2 N / mm ²
Sp.Gr.	:	1.2 +/- 0.01
pH	:	>9
UV and Ozone stability	:	Excellent
Chemical stability	:	Resists most common spills like oil and Mild chemicals. Will not resist solvents which will dissolve bitumen.
Temperature resistance	:	-25/ + 120 Deg.C
Touch Dry	:	1-2 hours

The drying time depends on the type of substrate, temperature, humidity and thickness of layer, etc.

Properties of dry film

Softening point R & B (ASTM D36 - 84) : >120°C.

Water vapour permeability (ASTM E96 - 92) : >0.15 gm/m²/day

Elongation at break (ASTM D412) : >900% Recovery

at 350% elongation (ASTM D412) :

>50%

Resistance to water (ASTM D2939) : No Blistering or re-emulsification

Protection of buildings against Ground water: As per BS 102 Code of practice.

Curing membrane : ASTM C 309:1998

Surface Preparation

All surfaces should be sound, clean and free of contaminants. Absorbent surfaces e.g. concrete should preferably be dampened with water. In kitchens, toilets and other wet areas all the openings should be properly sealed. On all weak points such as cracks or around the pipes use a woven fibre glass mesh as reinforcement between the two coats of MCRYL BITU-P.

Application

MCRYL BITU-P can be applied by brush, roller or squeegee. Hot, dry or very porous substrate should be dampened with clean water prior to application of MCRYL BITU-P. When two or more coats are required, ensure that the preceding coat is fully dry before applying the successive coat, which should be applied at right angle to proceeding coat. MCRYL BITU-P also acts as a non-degradable curing membrane; hence it may be applied immediately after the removal of mould, to the concrete structure, which has no aesthetic value such as the sub structure of the building.

Application Rate

- Primer : 1 part MCRYL BITU-P + 1 part Water
- Base Coat : 1 part MCRYL BITU-P (Diluted with Water up to 20% Max i.e. 4 kg Max per 20 Kgs bucket of MCRYL BITU-P)
- Top Coat : 1 part MCRYL BITU-P (Diluted with Water up to 10% Max i.e. 2 kg Max per 20 Kgs bucket of MCRYL BITU-P)

Coverage

- Primer : 250 grams/m²/coat
- Base Coat : 0.5 kg/m²/coat
- : 0.5 kg/m²/coat

Layer Thickness : 1.5 mm.

For higher performance Glass Fibre reinforcement can be applied between 2 coats of MCRYL BITU-P.

Packing

25KG/50 KG/200 kg drum.

Storage/Shelf life

Keep away from direct sunlight and store under normal warehouse conditions. Container must be tightly closed. Shelf life of the product is 12 months from the date of manufacturing provided it is stored in unopened factory packed drums

Cleaning

Tools may be cleaned with water as long as the product is wet. Once dry, by mechanical means only.

Health and Safety

Use normal safety precautions. Wear rubber hand gloves, safety shoes and safety goggles while using and handling the product. Avoid contact with skin and eyes. In case of accidental contact with eyes, wash with plenty of water and seek medical treatment immediately.

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