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PHOENIX CHEMICALS

CONSTRUCTION BEAUTIFY

PU TopCoat

High performance Aliphatic Polyurethane Modified Liquid Waterproofing Membrane

PU TopCoat is a high performance, ready to use, cold applied, single component, elastomeric high build liquid waterproofing membrane, based on Aliphatic Polyurethane modified bitumen emulsion. PU TopCoat 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. PU TopCoat 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 Washroom & Shower.
- Water reservoirs and Swimming Pools.
- Foundations, cellar walls, retaining walls, bridges abutments.
- Refurbishing of old waterproofing system including torch-on membrane.
- Faced damp proofing
- Waterproofing / curing membrane and protective coating for sub structure.

Features

- Single component and cold applied.
- PU TopCoat has excellent UV resistance and long term ageing stability.
- Cured membranes from PU TopCoat remain highly flexible even at extremes of temperatures (-25^{0}C to 100^{0}C).
- Excellent vapour 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

Sr. No.	Parameters	Specifications
1	Appearance	Thixotropic Black Emulsion
2	Rubber Content	65%
3	Elongation (ASTM D412)	900%
4	Tensile Strength (ASTM D 412)	2 Mpa
5	Specific Gravity	1.2
6	UV & Ozone Stability	Excellent
7	Temperature Resistance	-25^{0}C to 100^{0}C
8	Touch Dry	2 – 3 Hours
9	pH Value	>9

Properties of dry film

Softening point R & B (ASTM D36-84): >120^{0}C

Water vapour permeability (ASTM E96-92): >0.15gr/m/day

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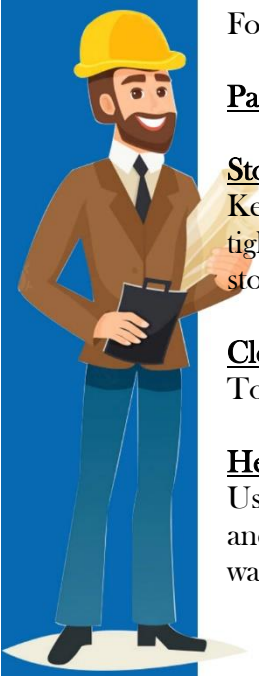

Elongation at break (ASTM D412): >900%
Recovery at 350% elongation (ASTM D412): >50%
Resistance to water (ASTM D2939): No Blistering or re-emulsification.
Protection of buildings against Ground Water: As per BS 102 Code of practice.
Curing Membrane: ASTM C 309:1998

Surface Preparation

All surfaces should be sound, clean and free from contaminants. Absorbent surface 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 fiberglass mesh as reinforcement between the two coats of PU TopCoat.

Application

PU TopCoat can be applied by brush, roller, or squeegee. Hot, dry or very porous substrate should be dampened with clean water prior to application of PU TopCoat. 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. PU TopCoat also act 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 PU TopCoat + 1 Part Water
First Coat: PU TopCoat (Diluted with Water upto 20% Max i.e. 4 Ltrs Max per 20 Kg bucket.
Second Coat: PU TopCoat (Diluted with Water up to 10% Max i.e. 2 Ltrs Max per 20 Kg bucket

Coverage:

Primer: 0.25 Kg/SQM/Coat
Base Coat: 0.5 Kg/SQM/Coat
Top Coat: 0.5 Kg/SQM/Coat

Layer Thickness:

Recommended thickness 1.2mm.
For higher performance Glass Fibre reinforcement can be applied between 2 coats of PU TopCoat.

Packing: 20 KG

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.