

ECMACOAT FLEX PU 30

Single component, Polyurethane resin based Elastomeric Waterproofing Membrane (Non-exposure grade)

Description

ECMACOAT FLEXPU 30 is a single component, cold applied, highly elastic, pure Polyurethane resin based high performance waterproofing membrane. It is free from bitumen/ coal tar. Conforming to ASTM C-836-95 & ASTM C-898-95.

Advantages

- Easy, fast and sure system for waterproofing
- Can be applied by brush, roller, squeeze or using a suitable spray gun.
- Very flexible to withstand movements
- Excellent crack bridging
- Membrane remains flexible for a very long time
- Good resistance to chemical and bacterial growth
- High tensile and tear strength to withstand challenging situations
- Low VOC – environment friendly
- Self-leveling and rollable

Uses

- Flat or Pitched Roofs
- Terraces, Green Roofs
- Podiums, Planters, Utility Areas
- Swimming Pools, etc.

Technical Specifications (2 mm DFT)

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|---|-------------------------------|
| Appearance of cured film | Black/ Grey |
| Specific gravity at 27°C | 1.40 ± 0.5 Kg/L |
| Solid Content, (w/w) % | ≈ 85 % |
| Elongation at break 7 days, ASTM D412 % | >500 % |
| Tensile Strength, 7 days, N/mm ² ASTM D412 | >2.0 N/mm ² |
| Tear Strength 7 days, N/mm ² ASTM D412 | 15-18 N/mm ² |
| Adhesion to concrete | >1.5 N/mm ² |
| Hardness (Shore A) | ≈ 45 |
| Touch dry (@27°C, 65% R.H.) | ≈ 4-5 Hours |
| Curing Time (full cure) | 24 hours (7 days) |
| VOC Content | <100 g/L |
| Crack bridging capability | >2 mm |
| Plant Root Resistance | Resistant |
| Theoretical coverage | 1.35 kg / mm / m ² |
| Packaging | 20/ 22 Kg Tin Container |
| Shelf Life (when stored at 25°C, 65% R.H.) | 6 months |

Application Instructions

Surface Preparation

Concrete should be cured for at least 28 days before applying ECMACOAT FLEX PU 30. It is important to remove/clean loose particles, dirt, grease from the surface by chipping, grinding and washing with suitable equipment such as high-pressure air, water-jet, grinder or wire brush. Make corner fillets and treat all cracks and construction joints in substrate with Polymer mortar. All moving cracks and joints shall be sealed with flexible sealants like ECMASEAL PU 1K or ECMASEAL MS. Apply PU primer ECMACOAT PUPRIME @ 0.15-0.20 Kg/ Sqm for better adhesion. Ensure substrate is dry and surface moisture content is <5% prior to primer application.

Applying ECMACOAT FLEX PU 30

- Stir with slow speed mechanical mixer before using ECMACOAT FLEX PU 30 and do not add anything in to mixed composition.
- ECMACOAT FLEXPU 30 can be applied by brush, roller or by suitable spray gun.
- Apply a first coat of ECMACOAT FLEX PU 30 on primed surface and let it dry for 15-18 hours.
- After the first coat has fully dried and set, apply a second coat of ECMACOAT FLEX PU 30 and let it cure for 3-4 days.
- Recommended film thickness should be minimum 1.2 mm for normal terrace waterproofing and 1.5 mm for podium waterproofing.
- Higher thickness up to 2-2.5 mm should be used for demanding conditions.
- Cured membrane shall be protected with protection concrete screed in slope ASAP or max. within 7-8 days.

Precautions

- Use PPE such as gloves, masks, goggles, etc. Avoid contact with skin & eyes, and prolonged breathing of solvent vapors.
- Unused material should not be left open.
- Do not apply if rain is expected within 24hours.
- Clean all tools with solvent before polymerization starts.

Storage & Handling

Material should be stored in Cool, Dry and covered shade away from fire. Please avoid stacking of containers and handle carefully during transport.

Safety Precautions

Wear all PPE's at the of Application like Safety boot, Safety Goggle, Hand Gloves, Mask and avoided with contact of Skin and Eyes. Any direct skin contamination with the hardeners should be washed off immediately with soap and water.

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