

am FLEXPROOF 503 PU

DESCRIPTION

am FLEXPROOF 503 PU is a one component, liquid cold applied, highly permanent elastic, polyurethane waterproofing membrane. It cures by reaction with ground and air moisture.

USES

am FLEXPROOF 503 PU provides a seamless finish onto all types of concrete and masonry surfaces. It can be used as a concealed waterproofing application (eg. under-tile or screed) in roof, balconies, terraces, bathrooms, kitchens, foundations, etc..

ADVANTAGES

- Simple application (roller or airless spray).
- Provides water vapour permeability.
- Full surface adherence without any additional Anchoring.
- **am FLEXPROOF 503 PU** is able to withstand foot traffic when cured.
- Even if the membrane gets damaged, it can be easily repaired within minutes.
- Maintains its mechanical properties over a temperature span of -20°C to +80°C.

METHOD OF USE

Surface Preparation

Ensure all surface where **am FLEXPROOF 503 PU** is to be applied must be free from oil, grease, wax and loose materials, which may harmfully affect the adhesion of the membrane. Maximum moisture content should not exceed 15%. New concrete structure need to dry for at least 28 days. Do not wash surface with water.

Repair of Cracks and Joints

The careful sealing of existing cracks and joints before the application is extremely important for long lasting waterproofing results.

Clean concrete cracks and hairline cracks of dust, residue or other contamination. Prime locally with UP -100 PRIMER and allow 2 to 3 hours to dry. Fill all prepared cracks with **am SEAL PU 1** or appropriate sealants. Then apply a layer of **am FLEXPROOF 503 PU**, 200mm wide centered over all cracks and while wet, cover with a 100mm cut stripe of glass fibre mesh. Press it to soak. Then saturate the fibre mesh with enough **am FLEXPROOF 503 PU** until it is fully covered. Allow 12 hours to cure.

Priming

Prime absorbent surfaces like concrete, cement screed or wood with UP – 100 PRIMER. Allow the primer to cure.

Application

Stir well before use.

am FLEXPROOF 503 PU can be applied by roller, brush or steel trowel on the primed surfaces.

Reinforce always with glass fibre mesh at problem areas, such as wall-floor connections, pipes, waterspouts.

Each layer of **am** FLEXPROOF 503 PU should be cured for 12 hours (not later than 36 hours) before applying the next layer. Do not apply **am** FLEXPROOF 503 PU over 0.5mm thickness (dry film) per layer.

HANDLING

am FLEXPROOF 503 PU should be stored in a dry place under shade, free from moisture contact.

Remove splashes from skin with water. In case of eye contact, wash with plenty of water. If irritation persists, seek immediate medical attention.

CONSUMPTION

1.3 to 1.5 kg/m² applied in two or three layers depending on surface porosity and application method.

PACKING

am FLEXPROOF 503 PU is supplied in off-white, grey and black, 25kg pail.

SHELF LIFE

am FLEXPROOF 503 PU (at 25°C) has a shelf life of 06 months.

SPECIFICATIONS	
Composition	One Component Polyurethane
Hardness	60 ±5 (Shore A) ASTM D2240, DIN 53505, ISO R 868
Tensile Strength	>2.0 N/mm ² (ASTM D 412-16)
Tear Strength	> 12.8 N/mm ²
Adhesive Strength	≥ 1.2 MPa (ASTM D 7234-12)
Elongation to full off	≥ 500% (ASTM D 412-16)
Watertightness: 0.3MPa, 30min	Water-repellent
Water vapour transmission	12.0g/m ² /24h (ASTM E 96-16)
Application Temperature	+5°C to +45°C (Surface moisture must be lower than 15%)
Thinning	May dilute with under 5% Thinner 18
Crack Bridging Ability (ASTM C836-95)	> 2 mm
Theoretical Spreading Rate	1.5kg/m ² /mm
Drying Time Potlife and drying time depends on temperature and quantities mixed	25°C, 55% RH Touch dry: < 12 Hrs Touch dry: ≤ 6 Hrs Fully cured/layer: about 24 Hrs



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