

FLEXPROOF 503 PU

DESCRIPTION

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

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
- 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 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 5%. 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 FLEXPROOF PU PRIMER or EPOXICOTE 401P and allow 2 to 3 hours to dry. Fill all prepared cracks with R-Seal PU1 or appropriate sealants. Then apply a layer of 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 FLEXPROOF 503 PU until it is fully covered. Allow 12 hours to cure.

Priming

Prime concrete surfaces with FLEXPROOF PU PRIMER or EPOXICOTE 401P. Allow the primer to cure.

Application

Stir well before use.

FLEXPROOF 503 PU can be applied by roller, brush or airless spray on the primed surfaces.

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

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

HANDLING

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

FLEXPROOF 503 PU contains isocyanates. Remove splashes from skin with water. In case of eye contact, wash with plenty of water. If irritation persists, seek immediate medical attention.

CONSUMPTION

1.0 to 1.4 kg/m² applied in two or three layers depending on surface porosity and application method.

PACKING

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

SHELF LIFE

FLEXPROOF 503 PU has a shelf life of 9 months in tightly closed original packing.

SPECIFICATIONS	
Composition	Polyurethane high-solids pre-polymer
Elongation at Break	> 250 % (ASTM D 412)
Tensile Strength	> 3.0 N/mm ² (ASTM D 412)
Water Vapour Permeability	> 25 gr/m ² /day (ISO 9932:91)
Resistance to Water Pressure	No Leak (1m water column, 24 hr) (DIN EN 1928)
Adhesion to concrete	2 ± 0.2 N/mm ² (ASTM D 903)
Shore A Hardness	70 ± 5 (ASTM D 2240)
Tack Free Time	6 - 8 hours (at 20°C, 50% RH)
Light Pedestrian Traffic Time	12 – 18 hours (at 20°C, 50% RH)
Final Curing Time	7 days (at 20°C, 50% RH)
Application Temperature	5°C to 35°C (at 20°C, 50% RH)
Chemical Properties	Good resistance against acidic and basic solutions (10%), detergents, seawater and oils

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