

KEMSEAL PU Membrane- External Membrane Application

DESCRIPTION

Kemseal PU Membrane is a fast cure, liquid applied, polyurethane elastomeric waterproofing membrane which when fully cured forms a permanently flexible waterproof lining to most building surfaces including reinforced concrete, block work, brick work, cement render, plaster board, fibre-reinforced cement sheet flooring and plywood etc. Kemseal PU Membrane meets the requirements of AS4654 for exterior waterproofing.

PRINCIPLE CHARACTERISTICS

- Single component
- Simple application- liquid applied
- Excellent elasticity
- Seamless- no joints or cracks
- Fast cure- recoat in 2-4 hours.
- Smooth, Easy to Apply Formulation.
- Non sag- Vertical and Horizontal Application.

USE AREAS

- Balconies and Decks
- Flashings
- Walls
- Roof Decks with compatible approved UV stable top coats such as Kemseal S80

GENERAL

COVERAGE: 1.5 Litres/ m²

SHELF LIFE: 9-12 months in cool environment.

TOUCH DRY: 2 - 4 hours

RECOAT: 4-8 hours

THINNING: Xylene

SOLVENT RESISTANCE: Not Resistant

ELONGATION: 600%

WEATHER RESISTANCE: Should be protected from sunlight- may be top coated with Kemseal S- 80 or other compatible UV protective coating.

TILING: Kemforte PU may be tiled over when fully cured. Broadcast clean dry sand into top coat. Use two-part cement based adhesive. Do not use solvent based adhesives/sealers over KEMSEAL PU. Externally, provide sufficient measures for full allowance of expansion and contraction in overlaying tiles and topping – particularly important with sheet flooring externally, or damage to the membrane may occur

INSTALLATION

SURFACE PREPARATION: Ensure surface is firmly placed/fixed to manufacturers directions. Surface must be free of dirt, dust, loose particles, oil, contaminates, curing compounds and flaking concrete etc. Acid etch if necessary. Concrete must be a minimum strength of 20 mpa and have cured a minimum of 28 days. Surface must be dry. Fill all screw holes, cracks and voids with Kemseal PU Sealant. Install leak control flanges around all pipe penetrations.

PRIMER: Prime with Kemseal WBE water based epoxy or Kemseal SP1 primer applied at 3-5 m²/Litre. Prime damp areas and areas subject to rising damp with Kemseal WBE. Plastic/Plumbing fittings shall be etched with pink plumbers primer then primed with SP1 or WBE. Allow to fully cure prior to membrane application.

DETAILING: Apply a minimum 15mm fillet or larger as needed of Kemseal PU Sealant between all horizontal to vertical junctions such as floor to wall/hob and around pipe/column penetrations. Around rain water and floor waste outlets, apply membrane to 1.5mm thick reinforced with polyester fabric 100mm wide across join. Where angles are installed such as across doorways or under shower screens (hobless shower) angle is to be adhered into a bead of Kemseal PU Sealant. Refer to Kemforte for specification on expansion joints.

REINFORCEMENT / BONDBREAKERS: A reinforcing fabric and/or bond-breaker tape, shall be utilized as needed over the following areas: Expansion joints, cracks, footing/floor to wall junctions, hobs, joints in sheet flooring, vertical corners, around floor/wall penetrations, down into floor waste pipes and any other area where movement will occur. Reinforcement may also be required over voids in off form concrete. Reinforcement shall be laid into the wet base coat and immediately over coated and worked in carefully to fully saturate fabric.

APPLICATION: To the prepared surface, apply Kemseal PU by brush, roller or trowel in one or more coats to achieve a minimum dry film thickness of 1.2mm. This will require 1.5L/m². Turn membrane up at walls and penetrations and down into drainage outlets. When dry, check for pinholes or misses and rectify if necessary. Re-coat within 24hrs. If membrane becomes dirty between coats, clean with xylene to ensure adhesion. Allow 24 hours to dry before covering.

PRECAUTIONS: Do not use Kemseal PU membrane in any situation beyond its physical limitations. Do not apply above 42°C or below 8°C ambient temperature. Wash equipment with xylene before dry. Do not fix tiles until fully dry. Protect membrane against damage before and during backfilling, tiling or covering. Where used externally, Kemseal PU should always be protected from UV exposure either by top coating with Kemseal S80 or covering with tiles, sand-cement topping or soil etc. When used externally, provide slip sheet of polyethylene plastic sheet over membrane prior to sand-cement topping, in a manner to allow for expansion and contraction of overlaying topping.

Disclaimer: The user is responsible to follow current data sheets. The information shown here is as up to date and correct in detail as possible and is intended to give a fair description of the product and its capabilities based on actual service history. In practice, the substrate and environmental conditions vary widely, making it essential for the user to determine the products suitability for a particular application and that the product is not used beyond its physical limitations. As the use of this material is beyond the manufacturers control, no guarantee expressed or implied is made as to such. Liability is limited to replacement of material proved faulty. Site Inspections, suggestions made or application instructions by Kemforte Systems, given verbally or in writing are always to be reviewed by; installers, contractors, consultants and building owners responsible for design and/or installation to ensure they are appropriate to the specific application or area of use, prior to application. Kemforte Systems terms and conditions of sale apply.

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