

ALDRIDGE

Aldridge Corporation Pty. Ltd.

High Performance Membranes

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HPM-Uniflex

TECHNICAL DATA SHEET

Introduction

HPM-UNIFLEX is an elastomeric one-part polyurethane/Acrylic fiber reinforced water-based membrane developed as a high performance internal/ external membrane for most general waterproofing applications. It is suitable for external applications where a UV stable.

FEATURES AND BENEFITS:

- 12 months shelf life in unopened containers
- Tough flexible film when cured
- Class III membrane certified to ASTM 4858:2004 wet area membranes when applied in accordance with AS3740:2010
- Tested in Accordance with AS4654.1 2012 for suitability for external use
- Low VOC content
- Single pack no mixing
- Excellent adhesion to a wide variety of substrates
- Safe and easy to use
- UV stable for external applications
- Can handle light maintenance traffic once fully cured

AREAS OF APPLICATION: For use in commercial, residential buildings in internal / external wet areas such as bathrooms, kitchens, laundry's, balconies, decks, roofs or any such area that will be tiled / covered with an appropriate finish. Areas left exposed as a UV resistant membrane finish to suitably graded surfaces prepared with adequate falls to minimize ponded water, and allow water falling to drains.

Acceptable Substrates

- Concrete after curing period of 28 days
- Masonry / render after curing period of at least 7 days
- Cement sheeting / underlay / external weatherboard / blue board
- pre-cast concrete once release agent has been removed/ dissipated
- Wet area plasterboard / Villaboard
- Structural Plywood Type A (PAA JAS-ANZ)
- Brickwork, Hebel (aggregate block)

Technical Data and Properties

Form	Single component viscous liquid
Membrane Classification	Class III
Colour	Grey
Volume Solids	60-62%
Elongation at break	450%
Tensile Strength	5.2 Mpa
Tear Resistance	8-12 N/mm ²
Recoat Time at 25°C 50% RH	4-8 Hours
Tack Free Time 25°C 50% RH	24 Hours
Full Cure time 25°C 50% RH	5 Days
Application temperature	10-40°C

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APPLICATION DETAILS: Commencement of membrane application shall be deemed to be an acceptance of the substrate suitability by the applicator to apply the intended membrane system.

Surface preparation All surfaces to be waterproofed must be firm, clean, dry, sound and suitable to accept a liquid membrane. All contaminants such as grease, oil, wax, curing compounds, dust, droppings, loose materials, paints, plaster must be removed. Fibrous cement sheeting, wet area plasterboard must be fixed in accordance with manufacturers installation instructions. Concrete must be allowed to cure for at least 28 days and cement render / sand cement screeds must be allowed to cure for at least 7 days prior to application of HPM-UNIFLEX. Porous substrates must be primed with HPM-Multiprime or HPM-Hydrostop. Damp (Touch Dry) substrates must be primed with HPM-Hydrostop. If a vapour barrier is required to protect against hydrostatic pressure, 2 coats of HPM-Hydrostop must be applied. Failure to do so may result in poor adhesion and subsequent delamination.

Priming – Metal

HPM- Hydrostop for metal. All metal surfaces should be cleaned and abraded prior to priming. Allow to cure.

Bond Breaker

Bond breakers are required at all wall/floor, hob/wall, junctions, and at all movement joint (wall/wall) where the membrane is bonded to the substrate. The Bond breaker shall be of the type compatible with class III flexibility membranes HPM-50FC, Soudal Multibond SMX 25, 35, or 50 or Aldridge Joint Bandage or an appropriate bond breaker system for under membrane application should be used. HPM-50FC should be applied to produce 12mm x 12mm minimum coved bead over inter planar joints. Bond breaker profile must be a minimum of 6mm in depth at the midpoint of the joint. If any cracks in the substrate are evident, grind out the crack to a width at least 6mm and fill with HPM-50FC and allow to cure.

HPM-50FC or bond breaker tape over the entire crack to isolate from the membrane. If applying membrane over Hardies flooring systems, follow Hardies recommendations for fixing and sealing of expansion joints. Apply HPM-50FC to all drainage outlets, flanges, water stops etc. Dedicated Expansion Joints must be isolated from the membrane using Aldridge Joint Bandage tape ensuring at least 12mm either side of the crack, and covering the entire length and width of the joint.

Mixing

HPM-Uniflex is a single pack membrane. Mix well before use.

APPLICATION OF MEMBRANE: All areas to receive membrane must be primed using the appropriate primer. HPM-Uniflex can be applied by brush or roller in multiple coats. Apply HPM-Uniflex to the wall /wall joints applying material at least 100mm either side of joint and in the case of a designated shower area the total wall area up to rose height. Waterproof wall joints to 1800 mm from the finished floor level, and a minimum width of 40 mm either side of the junction. Seal all tap, shower rose, and bath spout penetration. All floor/wall joints should be waterproofed to a minimum of 40mm either side of junction, and 150mm outside of the shower.

TILING OVER THE MEMBRANE: Allow minimum 24 hours after final coat to cure. Adhere tiles using a cement based 1 or 2part adhesive. Aldridge Corporation recommends HPM-Megabond, RLA Unigrip, RLA Lite RLA Mastik Tile Adhesive's or Centurion Tile Adhesives. If other forms of coverings are to be used it is recommended to use a protection board or sheet over the cured membrane to protect film damage from consequent trades, until a screed or finished covering/floor system is applied before proceeding.

RECOATING AND REPAIR: The surface must be clean and free of all adhesive residues, surface dust, or any other contamination. Wash down with appropriate cleaner and flush with fresh water and allow to dry, loose or damaged membranes must be cut to a clean adhered edge and removed. Recoating window must be within 48 hours or a sandwich coat of HPM Hydrostop must be used to stop delamination. Any exposed substrate must be primed. Apply 2 coats of membrane to the damaged area as per the coverage instructions ensuring a complete overlap of a minimum of 100mm either side of damaged area.

LIMITATIONS:

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- HPM-Uniflex is not designed to stop a hydrostatic head of water pressure
- HPM-Uniflex must not be used directly over damp, wet or contaminated surfaces
- HPM-Uniflex should not be applied externally if it is raining or rain is imminent
- HPM-Uniflex must not be used as a wearing surface for heavy foot or vehicle traffic
- HPM-Uniflex should not be applied where the surface temperature is below 10°C or greater than 35°C

CLEAN UP: Clean tools and equipment with warm water and detergent while the membrane is still wet

COVERAGE:

Wall area 0.7 ltr /m² (DFT 0.5 mm)

Floor areas 1.5 ltr /m² (DFT 1.0 mm)

External areas 1.6 ltr/m² (DFT 1.2mm)

Safety:

The use of gloves, safety boots and protective eyewear (against splashes) is recommended. Use breathing respirators at all times. Use in well ventilated areas. See the material safety data sheet for more information. SDS can be downloaded from www.hpma@bigpond.com

Technical Data sheet:

Data provided is typical but does not constitute a full specification. This should be sighted from the company for specific projects. This Technical Data Sheet may be revised at any time to comply with relevant changes to the Australian Standards or to include changes to current technology. For up to date data it is always best to request a copy from Aldridge Corporation Australia Pty Ltd on 1300 662 514 or email: sales@hpma.com.com.au

IMPORTANT NOTICE:

Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from Aldridge Corporation Australia website www.hpma.co.au or upon request from the office on 1300 662 514. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

CONDITIONS OF USE AND PRODUCT DISCLAIMER:

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