

ALDRIDGE

Aldridge Corporation Pty. Ltd.

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High Performance Membranes

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FEATURES AND BENEFITS

- Class II membrane complies with AS4654.1.2019 & AS4858:2010 testing
- Quick drying
- Excellent adhesion
- UV Stable

RECOMMENDED FOR

- Under tile membranes
- Balconies
- Blockwork and brickwork
- Wet areas
- Rooftops
- Light traffic
- Under water immersion



HPM-FLEXSEAL 2 Part Waterproofing Membrane

CHARACTERISTICS

- HPM-FlexSeal 2 Part, is a cementitious, two part waterproofing membrane designed for use as an under tile membrane in wet areas and on balconies as well as some swimming pools.
- HPM-FlexSeal 2 Part, is based on high alumina, fast setting cements and is mixed with a high solids water resistant pure acrylic.
- HPM-FlexSeal 2 Part, combines the fast drying and excellent adhesion characteristics of traditional 2 part membranes with the excellent toughness, elongation and flexibility of modern acrylic membranes.
- HPM-FlexSeal 2 Part, has been designed to pass all of the requirements of AS4654.1.2019 & AS4858:2010 for class II waterproofing membranes.
- HPM-FlexSeal 2 Part, has excellent adhesion to concrete, cement screeds and F/C sheet and is used together with waterproof tape for maximum performance and ease of use.

PREPARATION

- Substrates should be prepared in accordance with AS4654.1.2019 & AS3740:2010.
- Surfaces should be clean, dry, free of grease, dirt and curing compounds.
- All building materials must be fixed in accordance with the manufacturers instructions and specially in regard to wet areas and tiling.
- Concrete should be allowed to cure for at least 28 days and cement screeds should be cured for 7 days prior to waterproofing.
- Dense concrete, steel trowelled concrete or highly finished concrete must be abraded to yield a rough finish.
- Concrete, cement screeds, f/c sheet, plasterboard and other absorbent surfaces should be primed with HPM - Hydrostop.

- Blockwork and brickwork must be cured prior to waterproofing.
- Sheet joints and cracks larger than 1mm should be filled with HPM-SMP then covered with waterproof tape (see instructions for joints under Application).
- For cracks larger than 3mm, consult the Aldridge Corporation Technical Centre.
- In shower recesses, at wall floor junctions, neutral cure silicone should be used to seal the joint and be lightly radiused.
- Appropriate falls should be employed in wet areas as per AS4858:2010 (at least 1:80) and balconies should have falls of at least 1:100.
- In wet area floors and in shower recesses install a one piece flanged waste.
- HPM-FlexSeal 2 part, is suitable for most swimming pools of concrete construction as long as it has been primed with HPM-Hydrostop water based 2 part epoxy membrane.
- Exterior waterproofing should be carried out in accordance with AS4654.2.2019 - Waterproofing Exterior. Apply HPM-Flexseal waterproofing using a brush roller or airless spray, at a spreading rate of about 1.2m² per litre of product. Allow 4-8 hours to dry then apply a second coat. Average film build should be 1.0-1.2mm dry film thickness.

MIXING

- Add approx. 6 litres of HPM-FlexSeal liquid to a 20L bucket.
- While mixing with a power mixer add one of the 10Kg bags of HPM-FlexSeal 2 part powder and continue mixing until a thick smooth paste is achieved.
- When the mixture is lump free, add another 4 litres of HPM-FlexSeal liquid and continue mixing until homogeneous.
- Allow to stand for 5 minutes.
- Remix for a few seconds and the product is ready to apply.
- Smaller quantities can be mixed if necessary using the same ratios.

TECHNICAL DATA
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- Remix every 20 to 30 minutes if required
- If storing for a short time place a lid on the bucket to reduce skinning and then remix when ready to use.
- Do not use product that has been mixed and standing for longer than 2 hours.

APPLICATION

- Interior application must be carried out in accordance with AS4858:2010 – Interior Wet Areas.
- Exterior waterproofing should be carried out in accordance with AS4654.1.2019 – Waterproofing Exterior.
- Apply HPM-FlexSeal 2 part waterproofing using a brush or roller.
- Allow 4-8 hours to dry then apply a second coat. Minimum film build should be 1.0-1.2mm.
- Ensure that membrane continues up walls as required and across the floor into the waste flange. Note: In shower recesses apply the membrane up the wall to the height of the shower rose.
- Allow the final coat to dry for at least 24 hours before tiling (longer in cool climates).
- Take special care to use waterproof tape with wall floor junctions (see Fig 1) Take special care with the flanged waste (see Fig 2).
- Where there are expansion joints or control joints built into the floor or wall these must be bridged with waterproof tape (see Fig 3) and then brought through to the tiling.
- HPM-FlexSeal 2 Part can be used underneath or above cement screeds prior to tiling.
- On balconies continue the membrane up walls for at least 100mm (and underneath any flashings) and over the outside edges. Balconies must have a drip mould (see fig 4)
- Use waterproof tape or HPM-SMP to reinforce the membrane at wall/floor junctions, Sheet joints, expansion joints and over crack repairs.
- Embed the tape into the first coat of the HPM-FlexSeal 2 Part membrane using this method: Apply HPM-FlexSeal 2 part membrane to that area, and while still wet, press the tape into the membrane and then put a coat of membrane over the top making sure that the tape is impregnated and coated on both sides with membrane.
- Allow to completely dry before applying the third coat of HPM-FlexSeal 2 Part Membrane.
- Where waterproof tape must be joined, overlap the strips by at least 100mm with a thin layer of HPM-FlexSeal 2 part between the layers of tape.
- At internal corners or external corners use prefabricated corner tape or if necessary make the corner by folding the tape.
- Do not cut tape to make the corner moulding.

COVERAGE

- Coverage will vary depending on the absorbency and flatness of the substrate on smooth dense concrete a 40Kg kit will cover approximately 20m² using 2 coats with a dry film thickness of 1.0-1.2mm.

PACKAGING/SHELF LIFE

- HPM-FlexSeal 2 Part comes as a kit containing 2 x 10Kg bags of powder sealed in a 20L bucket and a 20L bucket of liquid additive.
- HPM-FlexSeal 2 Part should be stored in a cool dry place up off the floor and out of direct sunlight. Under good storage conditions HPM-FlexSeal 2 Part has a shelf life of at least 12 months.

HANDY TIPS

Do not use where there is negative hydrostatic pressure, use HPMA-Hydrostop to seal concrete first. For more complex balcony structures consult AS4654.2.2019 Waterproofing Exterior, for details and drawings. For swimming pools more detailed information can be sought from the Aldridge Corporation Technical Centre. For step down, frameless showers and other complex bathrooms, consult contact the Aldridge Corporation Technical Centre.

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