



MULTITHANE 2P-A80

TWO-PART, HEAVY DUTY, TRAFFICABLE, ABRASION RESISTANT, POLYURETHANE
WATERPROOFING MEMBRANE

DESCRIPTION

Multithane 2P-A80 is a two-part, elastomeric, heavy duty, trafficable, abrasion resistant, UV resistant, low VOC, polyurethane waterproofing membrane.

Multithane 2A-PA80 is AS4654.1 2012 tested and approved.

Multithane 2P-A80 is formulated to provide a high tensile, puncture and tear resistant waterproofing membrane suitable for pedestrian and vehicular traffic.

Multithane 2P-A80 is usually top coated with **Multithane ATC A80** (aliphatic top coat), which is a tough, abrasion resistant, UV and colour stable top coat.

USES

Multithane 2P-A80 is designed and formulated for use on:

Multithane 2P-A80 is suitable for use on most dry, sound and properly prepared and primed construction substrates such as:

- Exposed roofs
- Balconies, deck, podiums, terraces, and concrete slabs.
- Car park decks and ramps.
- Planters and landscape areas.
- Plant rooms and washrooms.
- Laboratory and kitchen floors.
- Sports stadiums.
- Walk-ways, passageways, and pedestrian access areas.
- Impact resistant internal flooring.

SUITABLE SURFACES

- Concrete and cementitious surfaces
- Blockwork, brickwork, and Hebel block.
- Masonry
- Timber
- Metal

Note: Surfaces must be dry or have a low moisture content (max. 5%), clean, free of dirt, friable matter, oils, grease, concrete release and curing agents, efflorescence, and other contaminants.

Note: For exposed areas, **Multithane 2P-A80** must be top coated with **Multithane ATC-A80**.

Advice from Duram should be sort for the most appropriate priming method for these surfaces; Duram has a recommended system for all the above.

***Note:** Particle Board is not regarded as a suitable substrate for wet areas and particularly shower recesses and should be replaced with CFC sheeting. As a minimum, Particle Board should be sealed with one to two coats of **Duram Primeseal MC**. All joints and corners must be sealed with a polyurethane sealant and a reinforced fabric used in conjunction with the membrane. Surfaces must be made good and should be sound, stable, dry, clean and free of dirt, dust and contaminants and suitably primed.

ADDITIONAL USES

- Water retaining Tanks.
- Holding Tanks
- Water features and ponds
- Chemical resistant applications – chlorine up to 18,000 PPM

SPECIFICATION

The information contained in this product data sheet is typical but does not constitute a full specification as conditions and specific requirements may vary from project to project. The instructions should be considered as a minimum requirement, but the applicator or contractor must use their skill, knowledge and experience to carry out additional works as may be necessary to meet the requirements of the project. Specification for specific projects should be sought from the Company in writing.

LIMITATIONS

Multithane 2P-A80 is a two-part system and must be correctly mixed using the correct proportions. Deviations may result in a reduction in pot life or the product remaining partially uncured.

BENEFITS AND ADVANTAGES

Multithane 2P-A80 is a highly technologically advanced polyurethane waterproofing membrane system and is:

- Highly Flexible - Class 1 - 58% Elongation
- Low VOC - meets Greenstar criteria.
- Seamless.
- Fully bonded. Does not allow water to track between the substrate and the membrane.
- Puncture and tear resistant.
- Abrasion resistant.
- Suitable for pedestrian and vehicular traffic.
- Can be made non-slip.
- Resistant to ponded water.
- Chemically resistant.
- Tolerates a wide temperature range ($\pm -30^{\circ}\text{C}$ to 120°C).
- Easy to apply.

PRECAUTIONS IN USE

The product is not classified as hazardous but good industrial practices and hygiene should be observed. Impervious gloves, goggles (against splashes), coverall and boots should be worn. Use in well ventilated areas. Avoid breathing in vapours. Keep all sources of ignition away from uncured product.

SURFACE PREPARATION

- Good preparation is essential. Surfaces must be sound, stable, dry, clean, free of dirt, dust, loose, flaking, friable material, grease, oils, release and curing agents and substances that may diminish adhesion.
- Mirror finished or glassy smooth concrete should lightly abraded or acid treated (then neutralised), flushed and allowed to dry.
- Prior coatings and membranes should be removed to provide a surface as described above.
- Surface defects must be rectified.

PRIMING

Apply a coat of **Duram Primeseal SP** at the rate of $7\text{m}^2 - 8\text{m}^2$ per litre per coat. Highly porous areas may require an additional coat of primer.

Green or damp concrete and where there is a risk of water vapour transmission from out of the substrate apply two coats of **Duram Primeseal SP** at the rate of $7\text{m}^2 - 8\text{m}^2$ per litre per coat. Allow each coat to dry (± 2 hours) before applying the next coat.

Important

- Where detailed preparation work is required, priming should be confined just to those areas. Do not prime areas that cannot be membraned within 2 hours (best) or 24 hours (maximum).
- The membrane should be applied as soon as the final coat of primer is dry (± 2 hours from last priming coat) and within 24 hours.

DETAILING PREPARATION

Corners

Prime as required.

Apply an adequate flexible polyurethane sealant such as **Duram Resiflex FC**, in accordance the manufacture's instruction and tool off to form a solid, coved or 45° fillet extending at least 10mm on to the adjacent surfaces. Allow sealant to cure. Apply the Duram membrane directly over the cured sealant and on the adjacent surfaces.

Joins, Gaps and Cracks

General

• Joins, gaps and cracks should be suitably filled and sealed with an appropriate elastomeric sealant, preferably a polyurethane sealant such as **Duram Resiflex FC**, and allowed to cure.

Recommendation: The movement of small cracks should not be underestimated and should be at least covered with a flexible polyurethane sealant or additional coats of membrane.

• Where movement of the joint is expected, lay a bond breaker tape over the filled crack and apply a 150mm wide good coat of **Multithane 2P-A80** over the crack and then embed a suitable reinforcing fabric into the wet coat, followed by a saturating coat of **Multithane 2P-A80**. Allow to cure and apply a further coat of **Multithane 2P-A80**. The dry film thickness over these cracks should be at least 2mm.

Large or Live Cracks

• Large cracks should be routed out to form a 'V' and then filled and sealed with a polyurethane waterproof joint sealant as per the manufacturer's instructions. The sealant should be finished slightly proud of the surface and allowed to cure.

• Lay a bond breaker tape over the filled crack and apply a 150mm wide good coat of **Multithane 2P-A80** over the crack and then embed a suitable reinforcing fabric into the wet coat, followed by a saturating coat of **Multithane 2P-A80**. Allow to cure and apply a further coat of **Multithane 2P-A80**. The dry film thickness over these cracks should be at least 2mm.

Joins - Particularly in CFC Sheeting and Timber Sheeting

• Ideally the sides of the sheets during install should be fully coated with a flexible polyurethane waterproof joint sealant prior to butting the sheets together.

• If not, the joins should be suitably filled and sealed with an appropriate elastomeric, construction grade, polyurethane waterproof sealant such as **Duram Resiflex FC** and finished flush with or preferably slightly proud of the surface and allowed to cure.

• After priming as required, lay a strip of **Duram Leak-Seal Tape** over the join, pressing it firmly on to the substrate. The Duram membrane is then as described under 'Large or Live Cracks'.

• If the **Duram Leak-Seal** is not used then follow the procedure as described under 'Large or Live Cracks'.

Waste Outlets, Penetrations and Angles

Waste Outlets: Floor wastes and puddle flanges should be rebated into the floor to allow water to readily drain. Gaps and perimeters should be sealed with a polyurethane sealant.

Plastic or metal angles: Where required by the Building Code such as internal hobs and exterior door barriers and also plastic corner angels under wall boards, they should be securely embedded in to a continuous, gap free bed of a polyurethane sealant / mastic.

APPLICATION

Product Preparation:

- Given the pot life of the material, have all components ready. Before use, mix individual pails separately (avoiding aeration) with a clean and dry stirrer ensuring that there is no cross contamination between Parts A and Parts B.
- It is recommended that the product be used in complete kits as supplied. If not, measure by weight strictly in the ratio of 23.1 grams of Hardener with 100 grams of Resin.
- Measure individual Parts A and Parts B components accurately in required proportion in to a separate clean and dry container and mix thoroughly with a machinal stirrer (avoiding aeration) periodically scraping the bottom and sides of the container. Ideally, use the products in complete kits as supplied.

Mixing Instructions

- Add the hardener (Part B) to resin (Part A) strictly in the correct volumetric ratio as supplied. Deviations may result in non or improper curing resulting in the loss or negation of the products performance.
- Mix only sufficient material that can be easily applied within 20 minutes at normal temperatures of between 20°C and 25°C.
- Mix thoroughly using a mechanical stirrer at low speed (>400rpm). Ensure sides and bottom of the container are scraped so that all material is thoroughly incorporated and mixed.
- Avoid air entrainment.
- To increase pot life, mix parts A and parts B together thoroughly then add up to 5% **Duram Solvent** and mix well. Note that the viscosity will decrease and be mindful of VOC requirements.

Application

Apply to notched trowel, roller or brush as follows:

Non-Exposed Membrane System

• Apply two coats of **Multithane 2P-A80** at the minimum rate of 1kg per m² per coat allowing each coat to cure before applying the next. Following coats, including **Multithane 2P-A80**, must be applied as soon as the preceding coat is dry and within 24 hours to maximum of 48 hours. The dry film thickness of the cured membrane must be 1.5mm.

Non-Exposed Anti-Slip Membrane System/Sand Finish

• Apply a coat of **Multithane 2P-A80** at the minimum rate of 1.5kg to 1.75kg per m². Allowing to cure. As soon as the preceding coat is dry and within 24 hours to a maximum of 48 hours apply a second coat of **Multithane 2P-A80** at the rate of 0.5kg per m² and while wet, broadcast the anti-slip grit to excess. Allow the membrane to cure and then remove loose grit. The dry film thickness of the cured membrane must be 2.0mm.

Exposed Anti-Slip Membrane System

• Apply a coat of **Multithane 2P-A80** at the minimum rate of 1.5kg to 1.75kg per m². Allowing to cure. As soon as the preceding coat is dry and within 24 hours to a maximum of 48 hours apply a second coat of **Multithane 2P-A80** at the rate of 0.5kg per m² and while wet, broadcast the anti-slip grit to excess. Allow the membrane to cure and then remove loose grit. The dry film thickness of the cured membrane must be 2.0mm.

• Apply a coat of **Multithane ATC-A80** to cured membrane at the rate of 3m² per litre. The dry film thickness must be 0.3mm.

Important: Pot Life: Depending upon ambient temperature and quantity of product mixed, the pot life of the mixed product is 20 to 30 minutes. Once thickened or set, the product is unusable and must not be thinned using solvents in an attempt to prolong the pot life or reconstitute the product.

COVERAGE

The stated average coverage rate may vary depending upon type, condition, porosity, texture of the surface and application technique.

Standard Membrane

- **Multithane 2P-A80:** 1kg per m² per coat. Dry film thickness - 1.5mm
- **Multithane ATC-A80:** 0.5kg per m². Dry film thickness - 0.3mm.

Anti-Slip Membrane

- **Multithane 2P-A80:** 2kg per m² finished. Dry film thickness - 2.0mm
- **Multithane ATC-A80:** 0.5kg per m². Dry film thickness - 0.3mm.

COLOURS

Usually supplied in Koala Grey but can be supplied in other colours. Minimum quantities may apply.

DRYING AND CURING

- Working Time - 30min
- Tack Time - 1 hour
- Recoat Time – 4 hours
- Full Cure – 48 hours
- Foot Traffic – 12 – 24 hours
- Vehicular Traffic – 2 to 3 days

TILING, TOPPING OR TOP COATING

For functional or aesthetic reasons, the membrane may be covered or topped.

Tiling:

- Tiles may be laid into a mortar bed not directly bonded.

Landscaping:

- Protect the membrane with a suitable protection board or drainage cell.
- Lay a suitable protection board or 0.2mm plastic slip sheet over the membrane.
- Protect membrane from point loads and pavers should be supported on appropriate pads.

SAFETY AND PRECAUTIONS

Duram **Multithane 2P-A80** is user friendly and safe to use if used correctly as intended.

Wear appropriate PPE during use. The use of gloves and goggles (against splashes) are recommended. If spraying, which is very rare, the use of a mask is recommended. If swallowed do not induce vomiting, give plenty of water to drink. Seek urgent medical advice. If in eyes, flush thoroughly with clean water, holding lid open to ensure any trapped product may be flushed away. Seek medical assistance. If on skin, remove contaminated clothing and wash skin with soap and water. This may not remove the product but will encourage it to cure and can later be peeled off. If inhaled, remove person to fresh air and seek medical attention. Ensure adequate ventilation.

For full safety data refer to the SDS. Observe precautions as per label.

TESTS AND TECHNICAL DATA

Abrasion resistance	AS1580.403.2	Pedestrian traffic only	
Bond strength (Average peel strength)	ASTM C794	36 N Concrete masonry 36 N plywood	
Cyclic movement	Moving Joint Test		Pass
Dimensional stability	ASTM D6207	N/A- liquid membrane	
Elongation at break	AS4654.1 Appendix A	5.48Mpa 58% Elongation	Class 1
Fiend seam strength	N/A	N/A-Liquid membrane	
Heat Ageing	AS/NZS4858	6.99 MPa 78% Elongation	Pass
Temperature resistance	AS4654.1 clause 2.6		Pass
Ultraviolet resistance	AS4654.1 table A4	8.01 MPa	Pass
Tensile strength	AS4654.1 table A4	5.48MPa 58% Elongation	
Thickness	Various methods	2.37 mm	
Durability	AS4654.1 Table A4		Pass
Water vapour transmission rate	ASTM E96	0.35 g/m ² /24 hours	

CONDITIONS OF USE AND DISCLAIMER

The information contained in this TDS is given in good faith based upon our current knowledge and does not imply warranty, express or implied. The information is provided and the product is sold on the basis that the product is used for its intended purpose and is used in a proper workmanlike manner in accordance with the instructions of the TDS in suitable and safe working conditions. Under no circumstances will the Company be liable for loss, consequential or otherwise, arising from the use of the product.

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