



Multithane 2P-A80

Two-Part, Heavy Duty, Trafficable, Abrasion and Root Resistant, Polyurethane Waterproofing Membrane

PRODUCT 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 root resistant properties.

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

USAGE/PURPOSE

- 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.
- Water retaining tanks and structures.
- Holding tanks.
- Chemical resistant applications - chlorine up to 18,000 PPM

PACKAGING

15 Lt pails.

COLOUR

Grey and Black.

SHELF LIFE

6 - 12 months.

STORAGE

Keep in cool, dry place away from heat, do not allow to freeze. Product is not flammable.



FEATURES & BENEFITS

- Highly Flexible - Class 1 - 58% Elongation.
- Low VOC levels. Meets the 'Green Star' environmental 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°C to 120°C).

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.

TYPICAL PHYSICAL PERFORMANCE

PERFORMANCE TEST	TEST METHOD	TYPICAL VALUES
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
Elongation at Break	AS4654.1 Appendix A	5.48MPa, 58% Elongation, Class I
Heat Ageing	AS/NZS4858	6.99 MPa, 78% Elongation, Pass
Temperature Resistance	AS4654.1 Clause 2.6	Pass
Ultraviolet Resistance	AS4654.1 Table A4	8.01MPa, Pass
Tensile Strength	AS4654.1 Table A4	5.48MPa, 58% Elongation
Thickness	Various Methods	2.37mm
Durability	AS4654.1 Table A4	Pass
Water Vapour Transmission Rate	ASTM E96	0.35g/m ² /24 hours



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COVERAGE/YIELD

Coverage rate varies depending upon type, condition, porosity, texture of the surface and application technique.

Standard General Purpose Membrane:

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

AS4654.1 Membrane:

- ❑ Multithane 2P-A80: 2.3kg/m² per coat. Dry film thickness - 2.3mm

Anti-Slip Membrane:

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

Contact Duram for alternative site-specific application DFT requirements.

SUITABLE SURFACES

- ❑ Concrete and Cementitious Surfaces
- ❑ Blockwork, Brickwork and Hebel Block
- ❑ Masonry
- ❑ Timber
- ❑ Metal

SURFACE PREPARATION

- ❑ Good preparation is essential. Surfaces must be sound, stable, dry, clean, and free of dust, loose, flaking, friable material and substances that may diminish adhesion.
- ❑ Mirror finished or glassy smooth concrete should be 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

- ❑ Surfaces should ideally be primed with Duram Primeseal MC applied at no less than 1 Lt per 4m² or Duram Primeseal SP applied at 1Lt per 7m² and allowed to dry. Primers need to be applied at no less than the relevant Duram Primer TDS.
- ❑ Duram Azcoseal/Multiseal may be used in areas where the moisture content of the surface is low, applied at no less than 1Lt per 4m².
- ❑ If there is a risk of entrapped moisture in the substrate which may cause the membrane to bubble or outgas, two coats of Duram Primeseal MC should be applied.
- ❑ Excessively porous, friable, and dusty surfaces may require an additional priming coat.
- ❑ Metal surfaces must be clean and free of contaminants and then apply Duram ME Primer. If rusted, treat to remove rust, apply a rust converter, and then apply Duram ME Primer.
- ❑ Other Duram primers suitable for use with Multithane STD include Multiseal and Superprime 711.
- ❑ Allow primers to touch dry before applying the membrane and refer to the TDS of the relevant 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 7m² - 8m² 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 and apply an adequate flexible polyurethane sealant such as Duram Resiflex FC, in accordance with the manufacturer'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.

JOINTS, GAPS, AND CRACKS

General:

- ❑ Joints, gaps and cracks should be filled and sealed with Duram Resiflex FC and allowed to cure.
- ❑ Recommendation: The movement of small cracks should not be underestimated and must be covered with a flexible polyurethane sealant and an additional coat 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 ATC over the crack and then embed a suitable reinforcing fabric into the wet coat, followed by a saturating coat of Multithane ATC. Allow to cure and apply a further coat of Multithane ATC. 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 Duram Resiflex FC joint sealant, as per the TDS. 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 ATC over the crack and then embed a suitable reinforcing fabric into the wet coat, followed by a saturating coat of Multithane ATC. Allow to cure and apply a further coat of Multithane ATC. The dry film thickness over these cracks should be at least 2mm.

Joints - 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 joints 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 joint, 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. Fill all gaps and perimeters with Duram Resiflex FC.
- ❑ 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

- ❑ 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



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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 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.

CURING

Drying and curing of the product is affected by type, dryness and porosity of the surface, temperature, humidity, ventilation, climate conditions and application technique and therefore drying and curing can only be given as a guide.

Generally, Multithane UVR:

- ❑ 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.

- ❑ **For Tiling:** Tiles may be laid into a mortar bed not directly bonded.
- ❑ **Ground Works/Landscaped Areas:** 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.

CLEAN UP

Avoid spills. They are difficult to clean particularly on porous surfaces. On concrete and non-porous surfaces for wet spills use a cloth and Duram Solvent.

Do not clean off carpets as it is better to allow product to cure and then shave the carpet. Equipment should be immediately cleaned with Duram Solvent.

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. 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.

HEALTH & SAFETY PRECAUTIONS

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

The Safety Data Sheet (SDS) must be read and understood prior to use.

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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