



Product Data Sheet

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 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:

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

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

Suitable Surfaces

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

- Concrete and cementitious surfaces.
- Block-work, brick-work and Hebel block.
- Masonry
- Timber

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.

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 - + 400% (meets CSIRO Class 111).
- 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°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.

Priming and 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.

Surfaces must be sound, stable, dry, free of dirt, dust, friable material, grease, oils, release and curing agents and contaminants 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

Apply a coat of Duram Primeseal SP at the rate of 7m² to 8m² 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 7m² to 8m² per litre per coat. Allow each coat to dry (\pm 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 (\pm 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 FC33, 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 FC33, 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 Std over the crack and then embed a suitable reinforcing fabric into the wet coat, followed by a saturating coat of Multithane Std. Allow to cure and apply a further coat of Multithane Std. 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 Std over the crack and then embed a suitable reinforcing fabric into the wet coat, followed by a saturating coat of Multithane Std. Allow to cure and apply a further coat of Multithane Std. 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 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 FC33 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 in to 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 angles 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 mechanical stirrer (avoiding aeration) periodically scraping the bottom and sides of the container. Ideally, use the products in complete kits as supplied.

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 ATC-A80, must be applied as soon as the preceding coat is dry and within 24 hours to maximum of 48 hours. The minimum dry film thickness of the cured membrane must be 1.5mm.

Non-Exposed Anti-Slip Membrane System

• Apply a coats 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 minimum dry film thickness of the cured membrane must be 2.0mm.

Exposed Anti-Slip Membrane System

• Apply a coats 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 minimum 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 at least 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. Minimum dry film thickness - 1.5mm
- Multithane ATC-A80: 0.5kg per m². Minimum dry film thickness - 0.3mm.

Anti-Slip Membrane

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

Packaging

Primer: Duram Primeseal SP- 4 litre and 15 litre pails

Membrane: Multithane 2P-A80 in 20kg kits

Top Coat: Multithane ATC-A80 in 15 litre pails

Colours

Usually supplied in grey, but can be supplied in other colours. Minimum quantities may apply.

Tiling, Topping or Top Coating

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

Tiling:

- Tiles may be laid in to a mortar bed or 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.

For full safety data refer to the products Material Safety Data Sheet. Observe precautions as per label.

Issued: 1 May 2012 | Valid to: 31 May 2015

Conditions of Use and Disclaimer

The information contained in this Material Data Sheet 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 Product Data Sheet 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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