

Durapol Membrane 5000

Optima Coatings Durapol Membrane 5000 is a cold applied adhesive waterproof membrane. It is a woven polypropylene sheeting coated with a strong adhesive polymer modified bitumen compound. The adhesive surface is protected by a disposable paper interleaving wider than the membrane for easy release during application. To ensure thorough sealing at overlaps there is a double-sided adhesive strip along the edge covered by a separate interleaving strip.

Colours: N/A

PRODUCT USES

- Waterproofing of bridges, car park decks and trafficked structures which will be topped with a hot premix wearing course. Suitable for new construction, refurbishment and repair application to be topped with hot premix.

ADVANTAGES

- Fast and easy application.
- No heating or drying.
- Conforms to changes in profile and accommodates shrinkage cracks of up to 0.6mm.
- Compatible with water bitumen coatings
- Accepts road laying.
- Accepts road laying machinery
- The self-adhesive compound provides excellent bonding and transmission of braking forces to the substrate and will allow healing of small punctures.
- It has a guaranteed thickness, not subject to site variation.

SURFACE PREPARATION

- Smooth, monolithic concrete surfaces are required for proper membrane adhesion.
- Surfaces must be free of voids, spalled areas, loose aggregates, and sharp protrusions, with no coarse aggregate visible.
- Broom finishes must not be used. Concrete must be cured and dry before application of Durapol Membrane 5000.
- Clean surface (broom, vacuum cleaner or compressed air) to remove dust, loose stones and debris.

PRIMING

- Apply Durasolve primer HD, to all concrete or masonry surfaces with a Mohair Roller (6 to 8m² per litre).
- Allow primer to dry one hour or until tack free. Prime only the area which will be covered with membrane in a working day.
- Areas not covered with membrane in within 24 hours must be re-coated with primer.

TEMPERATURE

- Apply Durapol Membrane 5000 only in fair weather when the air and surface temperature are above +5°C.

APPLICATION

- Peel back the protective release paper and apply the adhesive face onto the prepared and primed surface.
- Brush Optima Coatings Durapol Membrane 5000 onto the surface to ensure good initial bond.
- Align and overlap adjacent rolls by 50mm minimum at sides and ends, and roll with a firm pressure using a roller to ensure complete adhesion and continuity between the layers.
- In cool conditions, use a hot air gun or soft flame to apply gentle heat between layers. This will promote adhesion at lap joints.
- Ensure that no wrinkles form between the layers.

COVERAGE

- 20M² per roll excluding any overlaps

CLEANING

- Normal Hygiene procedures
- Wash hands thoroughly with soap and water or a hand cleaner prior to eating etc..
- Contaminated gloves should be laundered.

COVERAGE

- Store in original containers in a cool dry place.

TECHNICAL DATA

TYPICAL PROPERTIES	TEST METHOD	DATA
Membrane Strength	ASTM D1000	25N/mm
Elongation at Break	ASTM D1000	50%
Adhesion Peel Strength	ASTM D1000	4N/mm
Puncture Resistance	ASTM E154	900N
Tear Strength		
Water Vapour Permeability	ASTM E96	0.50g/m ² /24hr
Dimensional Stability 10 Day @ 70°C	MOAT 27/M 5.1.6(80°C)	Nil
Temperature Range		
- For application	+15°C to 45°C	
- For Service	-20°C to +70°C	
Length	20m	
Width	1000mm	
Core Size	76mm I.D	
Thickness		
- Backing	0.45mm	
- Adhesive	1.50mm	
- Total	1.80mm	
Selvedge Width		
Weight	1.7kg/m ²	
Weight per 20m² roll	35kg	
Recommended Primer	Durasolve Primer HD	

Properties listed are only for guidance and are not a guarantee of performance

Technical details above are provided in good faith. We are an ISO 9001: 2008 registered company and our products are manufactured to the highest standards using raw materials of superior quality. Consequently we believe in the quality of our products and will willingly replace any product in the unlikely event of a quality related performance failure. Whilst we are confident in guaranteeing the quality of our products, we cannot however accept any liability for performance failure due to the incorrect application of our products. Correct application is critical to the successful performance of our products and as this process falls outside of our control we are unable to cover the application under our product performance warranty. Where there are doubts, it is recommended that the user conduct their own suitability tests before use. To retain sheen and colour consistency of your paint, always make sure that the batch numbers are the same on all paint containers that you purchase.

Updated: March 2016 (this supersedes all previous publications)