Optima COATINGS

DATA SHEET

WATERPROOFING

Durapol Membrane 130

Optima Coatings Durapol Membrane 130 is a polymer-modified waterproofing membrane obtained from the modification of distilled bitumen with poly-olefin based co-polymers. The modified compound makes Durapol Membrane 130 an easy to apply membrane that requires low consumption of gas and has excellent adhesion properties that ensures, when the membrane is properly installed, very good bonding and tightness of all joints and overlaps. The carrier is a composite polyester stabilised with longitudinal glass yarns that provide very good dimensional stability and prevent problems of shrinkage caused by weathering in time. .

Colours: Black Talc Finish

PRODUCT USES

- Durapol Membrane 130 is recommended for a wide range of waterproofing applications including roofs, basements, tunnels, car parks and reservoirs and as a base sheet or intermediate layer in multi-layer waterproofing constructions for flat, pitched or vaulted roofs, made of reinforced concrete cast on site or prefab, of terraces, under-floorings etc. In case of direct exposure to weathering agents, Durapol Membrane 130 shall be protected with reflective paint or by a layer of self-protected (mineralised) membrane.
- Subject to the type of substrate it shall be installed by means of a propane gas torch, approved adhesives or by mechanical fixing. In any case it is recommended to prepare substrate with fixative bituminous Durasolve Primer (solvent base). Counter flash parapets and elevations using the Optiflash Waterproofing System. Side laps, head joints and small repairs shall be made by re-heating from the top and resealed with a trowel to ensure seam integrity. The use of Optibit a Bituminous Emulsion may also be used.
- For correct installation refer to information provided by Optima Coatings Technical Department.

ADVANTAGES

- Cross lamination provides dimensional stability, high tear strength, puncture and impact resistance to the membrane.
- Easy to apply membrane which requires low consumption of gas and has excellent adhesion properties that ensures, when the membrane is properly installed, very good bonding and tightness of all joints and overlaps.
- Total impermeability and good bondability and seam integrity.
- Stability at high temperature and good flexibility.
- Compatible with all normal roofing and building components

SURFACE PREPARATION

- Ensure all substrates are thoroughly clean, sound, dry and free from any contaminants such as dirt, rust, salt, algae and grease.
- Prime substrate with one coat of Optima Coatings Durasolve Primer applied by brush or roller.
- Allow primer to dry completely before the application of Optima Coatings Durapol Membrane 130.

APPLICATION

- Flat areas: Approximately 1.15m² per m² per layer with 10cm side laps and 15cm end laps.
- Base flashing: 100 x 35cm with 15cm end laps, 0.40m² per linear metre.
- Durapol Membrane 130 is installed by torch welding loose-laid sheets, or fully bonding membrane to the substrate.
- When loose-laid, only laps are bonded together. Peripheries and protrusions are sealed according to specifications.
- The underside of the membrane should be torched just enough to superficially melt the bitumen. Excessive heating may damage
- the re-enforcement.
- Overlaps should be re-heated from the top and resealed with a trowel to ensure seam integrity.

TECHNICAL DATA

PROPERTIES	TEST METHOD	UNIT	DURAPOL MEMBRANE 130 3MM	DURAPOL MEMBRANE 130 4MM	TOL
Length	EN 1848-1	M	10 (-1%)	10 (-1%)	>_
Width	EN 1848-1	M	1, 0 (-1%)	1, 0 (-1%)	>_
Thickness	EN 1849-1	Mm	3	4	+-5%
Tensile strength at break	EN 12311-1	N/5 cm			+-20%
Longitudinal			400	400	+-20%
Transverse			300	300	+-20%
Elongation at break	EN 12311-1	%	35	35	+-15%
Longitudinal			35	35	+-15%
Transverse					+-30%
Tear resistance (nail test)	EN 12310-1	N			+-30%
Longitudinal			130	130	+-30%
Transverse			130	130	+-30%
Resistance to Static Loading	EN 12730 (A)	Kg	10	10	>_
Impact Resistance	EN 12691	Mm	700	700	>_
Dimensional Stability	EN 1107-1	%	+-0.3	+-0.3	_<
Flexibility at Low Temperatures	EN 1109	ºC	0	0	_<
Flow Resistance at Elevated Temp	EN 1110	ºC	120	120	>_
Watertightness Method A	EN 1928	kPa	60	60	>_
Resistance to water vapour diffusion (μ)	EN 1931	-	20.000	20.000	--
Reaction to fire	EN 13501-1	Class	E	E	--
Resistance to external fire	EN 13501-5	Class	F Roof	F Roof	--

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 2020 (this supercedes all previous publications)