

# DuroTorch 4mm MINERAL

APP modified – Cold Flexibility – 10°C – Spunbond Polyester Reinforcement

## Technical Data Sheet

DUROTORCH and DUROTORCH 4mm MINERAL are bituminous plastomeric torch-on waterproofing membranes. They consist of a special compound based on distilled bitumen modified with selected a tactic polypropylene and reinforced with a high-performance spun bond polyester reinforcement, which offers excellent characteristics of mechanical resistance, ultimate-elongation and dimensional stability. The APP modified waterproofing compound assures good flexibility at low temperatures and excellent resistance to heat and UV rays.

The whole Durotech range is manufactured under a closely controlled system which conforms to the ISO 9001 requirements and guidelines.



### Product Features

- High performance torch-on membranes produced in Italy (the country that invented modified membranes and that is still the largest world producer and the holder of know – how and producer of all machineries to manufacture the product.
- Advance carriers made of combined polyester (spun bond polyester reinforced with fiberglass) to boost dimensional stability.
- Bitumen modification made with polypropylene based APP, specially selected for Australian climate (high UV radiation)
- Product consistency (no variation of thickness, mix quality etc.)

### Use Areas

DUROTORCH and DUROTORCH 4mm MINERAL membranes are versatile and easy to install. Because of their good mechanical characteristics and high dimensional stability, they are suitable to be used both in residential and industrial waterproofing. DUROTORCH and DUROTORCH 4mm MINERAL membranes are compatible with most materials normally used in roofing structures.

## Installation

The underside of DUROTORCH and DUROTORCH 4mm MINERAL is finished with a thin thermo fusible film, which easily melts upon torching, favouring a rapid and clean application. The upper side of the MINERAL version is finished with a uniform layer of factory-applied natural or coloured slate chipping and is provided with a lateral selvage for overlapping. Surfaces must be perfectly dry, clean and sufficiently plain or leveled. Prior to adhering the membrane to the substrate, the latter must be primed with either water-based or solvent-based primer. The product is welded down using a propane gas burner which is burning off the underside film and melting down part of the bituminous undercoating. Overlaps have to be welded by torching with side laps of 8-10cm and end laps of 12-15 cm. Stop installation in rain, snow, heavy fog or if the air temperature falls below +5°C.

## Handling and Storing

- When unloading the material avoid any abrupt impact with the ground.
- Do not take up the rolls to the roof without using supporting pallets and safety equipment.
- Always store the rolls in upright position, preferably under shelter. In the cold season preferably do not stock the product at site during night-time.
- In case of double stacking use a rigid separation board to spread the load.

Technical Data			Durotorch		Durotorch Mineral	
EN Norms	Features	Units	Nominal Values	Tolerances	Nominal Values	Tolerances
EN 1848-1	Length	m	10	≥as/declared	10	≥as/declared
EN 1848-1	Width	m	1	-0,5%	1	-0,5%
EN 1849-1	Thickness	mm	4	± 0,2		
EN 1849-1	Weight	kg/m <sup>2</sup>			4.5	± 10%
EN 12311-1	Tensile Strength long (max. charge) Tensile Strength trans. (max. charge)	N/50mm	750	-20%	750	-20%
			650	-20%	650	-20%
EN 12311-1	ELONGATION AT BREAK longitudinal	%	45	-15pp	45	-15pp
	ELONGATION AT BREAK transversal	%	45	-15pp	45	-15pp
EN 12310-1	TEARING RESISTANCE longitudinal	N	150		150	
	TEARING RESISTANCE transversal	N	150		150	
EN 12730	STATIC PUNCTURING	KG	12		12	
EN 12691	DYNAMIC PUNCTURING	mm	850		850	
EN 1107-1	DIMENSIONAL STABILITY	%	-0,50T -0,30L		-0,50T -0,30L	
EN 1109	COLD FLEXIBILITY	°C	-10		-10	
EN 1110	HEAT RESISTANCE	°C	120		120	
EN 1928	WATER TIGHTNESS	Kpa	≥60		≥60	
EN 1928	WATER RESISTANCE (max. variation)	%	±2		±2**	

PRODUCT	THICKNESS (mm)	Weight (kg/sqm)	Dimension	Rolls / Pallet
DUROTORCH	4mm		1 Roll 1 x 10 mt.	28
DUROTORCH	4mm		1 Roll 1 x 10 mt.	23
DUROTORCH MINERAL		4,5 KG	1 Roll 1 x 10 mt.	20
DUROTORCH MINERAL		5,0 KG	1 Roll 1 x 7.5 mt.	25