

## WONDERBUILDS 4.5KG A BLACK/GREEN/GREY MINERAL

**WONDERBUILDS 4.5KG A BLACK/GREEN/GREY MINERAL** is an elastomeric Modified Bitumen Membrane used for various waterproofing applications. It is manufactured in a high-tech calendaring process, which involves the saturation and coating of a polyester carrier with a SBS elastomer-modified bitumen compound. The SBS modifiers are used to improve the thermal, chemical, and ageing properties of the bitumen compound. Meanwhile, the mechanical characteristics such as tensile strength, elongation and tear resistance are boosted by the non-woven polyester carrier, which acts as a reinforcement to the product.

### Product Features

- Excellent U.V. resistance if finished with slated
- Superior chemical resistance to alkaline solutions, light acidic solutions, and bacteria
- Superior thermal resistance under a wide range of temperature fluctuation
- Absolute impermeability to water
- Outstanding performance at high temperature and good at low temperature
- Excellent adhesion to any surface
- Applicable for above and below grades usages.

### Applications

The membranes are used for a wide variety of waterproofing requirements and in applications subject to high mechanical stresses, such as:

- roofing or re-roofing for single or multi-layer systems
- sloped and flat roofs
- tunnels, wet areas, swimming pools and toilets
- foundations and underground structures
- slab on grade

### Surface Finish

The lower surface of the membrane is laminated with a thin thermo-fusible polyethylene 'burn-off' film.

### Storage

This product should be stored in an upright position in a dry, flat, and ventilated storage area away from direct sunlight.

### Technical Service and Other Products

Specialist advice and information on other compatible products can be found at [www.wonderbuilds.co.uk](http://www.wonderbuilds.co.uk).

## Performance

TEST	UNIT	TOLERANCE	TEST METHOD	RESULTS
Cold Temperature Flexibility	°C	MLV ≤	EN 1109	-18 to -22
Mass per unit area	Kg	MDV ± 5%	EN 1849-1	4.5
Roll Width	m	MDV ± 1%	EN 1848-1	1
Roll Length	m	MDV ± 1%	EN 1848-1	8
<b>TENSILE STRENGTH (MAX)</b>				
Longitudinal	N/5cm	MDV ± 20%	EN 12311-1	700
Transverse	N/5cm	MDV ± 20%	EN 12311-1	500
<b>ELONGATION @ BREAK</b>				
Longitudinal	%	MDV ± 15	EN 12311-1	40
Transverse	%	MDV ± 15	EN 12311-1	40
<b>Resistance to Static Loading</b>				
Resistance to Static Loading	Kg	MLV ≤	EN 12730	15
<b>Resistance to Impact Loading</b>				
Resistance to Impact Loading	mm	MLV ≤	EN 12691	1000
<b>Flow Resistance at Elevated Temperature</b>				
Flow Resistance at Elevated Temperature	°C	MDV - 10	EN 1110	110
<b>Dimension Stability</b>				
Dimension Stability	%	-	EN 1107-1	± 0.5
<b>External Fire Performance</b>				
External Fire Performance	-	-	EN 13501-5	F Roof
<b>Reaction To Fire</b>				
Reaction To Fire	-	-	EN 13501-1	F
<b>Water Tightness Method A</b>				
Water Tightness Method A	10 Kpa	-	EN 1928:2000	PASS
<b>Water Vapour Transmission</b>				
Water Vapour Transmission	μ	-	EN 1931	20 000
<b>Average Lose of Slated</b>				
Average Lose of Slated	%	MLV ≤	EN 12039	30

## Availability

Product Name	Product Code	Roll Dimensions (m)	Weight(kg/m <sup>2</sup> )
WonderBuilds 4.5KG A Black Mineral	WB45ABM	1 x 8	4.5
WonderBuilds 4.5KG A Green Mineral	WB45AGM	1 x 8	4.5
WonderBuilds 4.5KG A Grey Mineral	WB45AGYM	1 x 8	4.5

*Membranes with a color slated surface finish may notice a change of color variations in form of oily marks, caused by migration of natural bitumen oils and exposure to atmospheric agents. This occurrence has no effect on the product's performance whatsoever and becomes uniform gradually by time.*