

WONDERBUILDS 4KG A BLACK/GREEN MINERAL

Introduction & Product Description

WONDERBUILDS 4KG A BLACK/GREEN 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.

Surface Finish

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

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

Application

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

Storage

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

Availability

Product Name	Colour	Product Code	Roll Dimensions (m)	Weight(kg/m ²)
WONDERBUILDS 4KG A BLACK MINERAL	Black	WB4ABM8	1 x 8	4
WONDERBUILDS 4KG A GREEN MINERAL	Green	WB4AGM8	1 x 8	4

Performance

Test	Unit	Tolerance	Test method	Results
Cold Temperature Flexibility	°C	MLV ≤	EN 1109	-15 to -18
Mass per unit area	Kg	MDV ± 5%	EN 1849-1	4
Roll Width	m	MDV ± 1%	EN 1848-1	1
Roll Length	m	MDV ± 1%	EN 1848-1	8
Type of Compound	-	-	-	SBS
Tensile strength (max)				
Longitudinal	N/5cm	MDV ± 20%	EN 12311-1	500
Transverse	N/5cm	MDV ± 20%	EN 12311-1	400
Elongation @ break				
Longitudinal	%	MDV ± 15	EN 12311-1	35
Transverse	%	MDV ± 15	EN 12311-1	35
Resistance to Static Loading				
Resistance to Static Loading	kg	MLV ≤	EN 12730	10
Resistance to Impact Loading				
Resistance to Impact Loading	mm	MLV ≤	EN 12691	900
Flow Resistance at Elevated Temperature				
Flow Resistance at Elevated Temperature	°C	MDV - 10	EN 1110	110
Dimension Stability				
Dimension Stability	%	-	EN 1107-1	± 0.5
External Fire Performance				
External Fire Performance	-	-	EN 13501-5	F Roof
Reaction To Fire				
Reaction To Fire	-	-	EN 13501-1	F
Water Tightness Method A				
Water Tightness Method A	10 Kpa	-	EN 1928:2000	PASS
Water Vapour Transmission				
Water Vapour Transmission	μ	-	EN 1931	20 000
Average Lose of Slated				
Average Lose of Slated	%	MLV ≤	EN 12039	30

Technical Service and Other Products

Specialist advice and information on other compatible products can be found at www.wonderbuilds.co.uk.