



## WONDERBUILDS 4.5KG N GREEN MINERAL

### Description

WONDERBUILDS 4.5KG 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.

### Product Features

- Excellent U.V. resistance
- 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

### Surface Finish

Upper surface: Green slates

Lower surface: 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.

### Additional Notes

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.

## Further Information

View our full range of products at [www.wonderbuilds.co.uk](http://www.wonderbuilds.co.uk)

You can also contact us at [0208 208 2121](tel:02082082121), or at [admin@wonderbuilds.co.uk](mailto:admin@wonderbuilds.co.uk)

## Performance

| Test                         | Unit              | Test Method  | Results    | Tolerance |
|------------------------------|-------------------|--------------|------------|-----------|
| Length                       | m                 | EN 1848-1    | 8          | MDV ± 1%  |
| Width                        | m                 | EN 1848-1    | 1          | MDV ± 1%  |
| Mass                         | kg/m <sup>2</sup> | EN 1849-1    | 4.5        | MDV ± 5%  |
| Cold flexibility             | °C                | EN 1109      | -12 to -15 | MLV ≤     |
| Flow resistance              | °C                | EN 1110      | 100        | MDV - 10  |
| Tensile strength L/T         | N/5 cm            | EN 12311-1   | 600 / 400  | MDV ± 20% |
| Elongation at break L/T      | %                 | EN 12311-1   | 35/35      | MDV ± 15  |
| Resistance to Static Loading | kg                | EN 12730     | 15         | MLV ≤     |
| Resistance to Impact Loading | mm                | EN 12691     | 1000       | MLV ≤     |
| Dimensional stability        | %                 | EN 1107-1    | ± 0.5      |           |
| Fire resistance              |                   | EN 13501-5   | F Roof     |           |
| Fire reaction                |                   | EN 13501-1   | F          |           |
| Watertightness               | 60 kPa            | EN 1928:2000 | PASS       |           |
| Water Vapour Transmissions   | μ                 | EN 1931      | 20000      |           |
| Average Lose of Slated       | %                 | EN 12039     | 30         | MLV ≤     |

## Availability

| Product Name                          | Product Code | Roll Dimensions (m) | Weight(kg/m <sup>2</sup> ) |
|---------------------------------------|--------------|---------------------|----------------------------|
| WonderBuilds 4.5KG<br>N Green Mineral | WB45NGM      | 8 x 1               | 4.5                        |