

# magnum

# APP

## THE BRAI APP VERSATILE MEMBRANES



MAGNUM is a bitumen-polymer membrane for waterproofing applications.

The BRAI long experience and research have leads to the creation of the MAGNUM APP compound, combined with the last generation of reinforcement in non-woven polyester stabilised with glass fibres threads.

The result is a versatile membrane suitable for hot climate conditions with excellent shape and dimensional stability and mechanical properties in this class of pre-fabricated waterproofing torch-on membranes for the most popular applications with the best ratio cost-performances.

MAGNUM membranes can be supplied with top finish in PE film or sand, self-protecting natural or coloured slate chips.

| TECHNICAL DATA   | u. m.             | 3 mm GR<br>4 mm GR | Mineral 40 GR<br>Mineral 45 GR | Mineral 4mm HR | tolerances |
|--|-------------------|--------------------|--------------------------------|----------------|------------|
| Top finish   |                   | PE film / sand     | mineral chips                  |                |            |
| Roll length (EN 1848-1)                                      | m                 | 10                 | 10                             | 10             | -          |
| Roll width (EN 1848-1)                                       | m                 | 1                  | 1                              | 1              | -          |
| Thickness (EN 1849-1)  | mm                | 3 / 4              | -                              | 4              | ± 10%      |
| Mass per unit area   | kg/m <sup>2</sup> | -                  | 4 / 4,5                        | -              | ± 10%      |
| Type of carrier  |                   | GR Polyester       | GR Polyester                   | HR Polyester   | -          |
| <b>Ultimate tensile strenght (EN 12311-1)</b>                |                   |                    |                                |                |            |
| Longitudinal resistance at break                             | N/5cm             | 650                | 650                            | 800            | ± 20%      |
| Longitudinal elongation at break                             | %                 | 40                 | 40                             | 45             | ± 15       |
| Transverse resistance at break                               | N/5cm             | 500                | 500                            | 700            | ± 20%      |
| Transverse elongation at break                               | %                 | 40                 | 40                             | 45             | ± 15       |
| <b>Tearing resistance (EN 12310-1)</b>                       |                   |                    |                                |                |            |
| Maximum longitudinal tearing resistance                      | N                 | 150                | 150                            | 180            | ± 30%      |
| Maximum transverse tearing resistance                        | N                 | 150                | 150                            | 180            | ± 30%      |
| <b>Flexibility at low temperatures (EN 1109)</b>             | °C                | ≤ 0                | ≤ 0                            | ≤ 0            | -          |
| <b>Shape stability to heat (EN 1110)</b>                     | °C                | ≥ 120              | ≥ 120                          | ≥ 120          | -          |
| <b>Dimensional stability at high temperature (EN 1107-1)</b> | %                 | ≤ ±0,3             | ≤ ±0,3                         | ≤ ±0,2         | -          |
| <b>Water impermeability (EN 1928 – method A)</b>             | -                 | Pass               | Pass                           | Pass           | -          |
| <b>Softening Point (Ring and Ball Test) (ASTM D38-86)</b>    | °C                | ≥ 150              | ≥ 150                          | ≥ 150          |            |
| <b>Packaging</b>   | sqm / pallet      | 300/230            | 300 / 270                      | 230            | -          |

BPP: Bitumen Polymer Plastomer

Tolerances follow EN 13969 & EN 13707 indications. BRAI s.r.l. reserves the right to modify the data shown on this technical sheet without prior notice. For assistance and information on the correct use of the products please phone +39 07441906412 or send an e-mail to serviziotecnico@brai.it. Website: www.brai.it

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