



# PETROMAT 1450BB

PETROMAT® 1450BB Bond Breaker is a **WHITE** needlepunched nonwoven with no heat treatment composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. PETROMAT 1450BB Bond Breaker is an interlayer for separating cementitious pavement layers on unbonded concrete overlays. PETROMAT 1450BB Bond Breaker is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids. **The bondbreaker's white color reduces surface temperatures during installation.**

TenCate Geosynthetics Americas (A Solmax Company) is accredited by Geosynthetic Accreditation Institute – Laboratory Accreditation Program ([GAI-LAP](#)).

| MECHANICAL PROPERTIES           | TEST METHOD | UNIT                                   | MINIMUM AVERAGE ROLL VALUE |          |
|---------------------------------|-------------|----------------------------------------|----------------------------|----------|
|                                 |             |                                        | MD                         | CD       |
| Wide Width Tensile Strength     | ASTM D4595  | lbs/ft (kN/m)                          | 685 (10)                   | 685 (10) |
| Wide Width Elongation (Maximum) | ASTM D4595  | %                                      | 130                        | 130      |
| Weight                          | ASTM D5261  | oz/yd <sup>2</sup> (g/m <sup>2</sup> ) | 14.7 (492)                 |          |

| MECHANICAL PROPERTIES                                           | TEST METHOD       | UNIT                | MINIMUM TEST VALUE     |                      |
|-----------------------------------------------------------------|-------------------|---------------------|------------------------|----------------------|
| Thickness Under Load: <sup>1</sup>                              |                   |                     |                        |                      |
| 0.29 psi (2 kPa)                                                | ASTM D5199        | mils (mm)           | 120 (3.0)              |                      |
| 2.9 psi (20 kPa)                                                | ASTM D5199        | mils (mm)           | 100 (2.5)              |                      |
| 29 psi (200 kPa)                                                | ASTM D5199        | mils (mm)           | 40 (1.0)               |                      |
| Water Permeability in Normal Direction Under Load: <sup>1</sup> |                   |                     |                        |                      |
| 2.9 psi (20 kPa)                                                | ASTM D5493        | ft/sec (m/s)        | 3.3 x 10 <sup>-4</sup> | 1 x 10 <sup>-4</sup> |
| In-Plane Water Permeability: <sup>1</sup>                       |                   |                     |                        |                      |
| 2.9 psi (20 kPa)                                                | ASTM D6574        | ft/sec (m/s)        | 1.6 x 10 <sup>-2</sup> | 5 x 10 <sup>-4</sup> |
| 29 psi (200 kPa)                                                | ASTM D6574        | ft/sec (m/s)        | 6.6 x 10 <sup>-4</sup> | 2 x 10 <sup>-4</sup> |
| Alkali Resistance <sup>2</sup>                                  | EN 13249, Annex B | %                   | 97                     |                      |
| UV Resistance (at 500 hours)                                    | ASTM D4355        | % strength retained | 70                     |                      |

| PHYSICAL PROPERTIES              | UNIT                              | TYPICAL ROLL VALUE  |
|----------------------------------|-----------------------------------|---------------------|
| Roll Dimensions (width x length) | ft (m)                            | 14 x 300 (4.3 x 91) |
| Roll Area                        | yd <sup>2</sup> (m <sup>2</sup> ) | 467 (390)           |
| Estimated Roll Weight            | lb (kg)                           | 485 (220)           |

<sup>1</sup> Value determined from independent testing

<sup>2</sup> Polymer Content

<sup>3</sup> Custom sizes available by special order



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