



Mirafi® MPBBC1450 (1450BB) Nonwoven Cementitious Bond Breaker For Unbonded Concrete Overlays

TenCate Geosynthetics develops and produces materials that function to increase performance, reduce costs and deliver measurable results by working with our customers to provide advanced solutions.

OUR PRODUCT

Mirafi® MPBBC1450 nonwoven cementitious bond breaker for unbonded concrete overlays will provide the alternative solution to traditional bound and unbound drainage layers or asphalt concrete separation layers. Recognizing the need for field constructability and performance, Mirafi® MPBBC1450 bond breaker delivers these key features at significant cost savings.

The use of Mirafi® MPBBC1450 eliminates the need for notching the base pavement section, saving on additional labor and equipment costs.

The Difference Mirafi® MPBBC1450 Nonwoven Bond Breaker Makes:

- Can be used on deteriorated pavements showing signs of wheelpath rutting, D-cracking and Alkali Silica Reaction (ASR).
- Results in faster installation over traditional drainage and new asphalt layers.
- Reduces cost of materials over traditional bound and unbound drainage layers, or asphalt

separation layers.

- Physical composition of the material promotes the removal of water from the pavement layers, channeling water away that infiltrates into the pavement joints and cracks.
- Mitigates reflective cracking, promoting longer lasting pavement.

OUR APPLICATIONS

Mirafi® MPBBC1450 meets Federal Highway Administration (FHWA) specifications for nonwoven interlayers for separating cementitious pavement layers. It is specifically designed as a separation layer for unbonded concrete overlays in lieu of hot mix asphalt separation or bound and unbound drainage layers. Whenever concrete pavement unbonded overlays are considered, the choice is Mirafi® MPBBC1450 nonwoven as the separation layer between the new and old pavement section.

Mirafi® MPBBC1450 nonwoven bond breaker is ideal for:

- Highways
- Urban Streets
- Airports
- Parking Lots
- Shopping Centers



Mirafi® MPBBC1450 Nonwoven Bond Breaker

OUR PROCESS

Mirafi® MPBBC1450 bond breaker is a needle-punched nonwoven interlayer composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position for use as an interlayer for separating cementitious pavement layers. Mirafi® MPBBC1450 bond breaker is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

OUR SERVICE

TenCate Geosynthetics offers complete application technical assistance. Our comprehensive service includes assistance during the design, specification development and installation process. TenCate Geosynthetics makes the difference.



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Nonwoven Cementitious Bond Breaker

For Unbonded Concrete Overlays

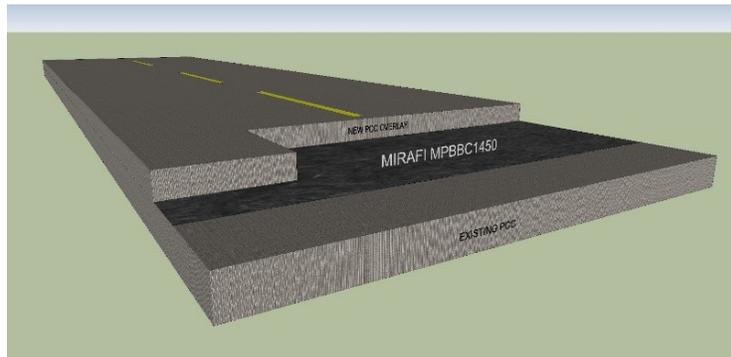
Technical Data

Mechanical Properties	Test Method	Unit	Roll Value
Weight	ASTM D5261	oz/yd ² (g/m ²)	14.7 (498)
Thickness Under Load	ASTM D5199		
0.29 psi (2 kPa) ¹		mils (mm)	118 (3.0)
2.9 psi (20 kPa) ¹		mils (mm)	98 (2.5)
29 psi (200 kPa) ¹		mils (mm)	39 (1.0)
Wide Width Tensile Strength ²	ASTM D4595	lbs/ft (kN/m)	685 (10)
Wide Width Elongation ³	ASTM D4595	%	130
Water Permeability in normal direction under load	ASTM D5493		
2.9 psi (20 kPa) ¹		m/s	1 x 10 ⁻⁴
In-plane Water Permeability	ASTM D6574		
2.9 psi (20 kPa) ²		m/s	5 x 10 ⁻⁴
29 psi (200 kPa) ²		m/s	2 x 10 ⁻⁴
Alkali Resistance ¹	EN 13249	%	96
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	70

¹ Actual Test Value based on Third Party Results

² Minimum

³ Maximum



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