













## Mirafi® H<sub>2</sub>Ri Woven Geosynthetic

for improved Soil Stabilization and Base Course Reinforcement through **Continuous Moisture Management** 

TenCate develops and produces materials that deliver increased performance, reduce costs and deliver measurable results by working with our customers to provide advanced solu-

Mirafi® H<sub>2</sub>R*i* is a revolutionary geosynthetic. In addition to providing the conventional functions of reinforcement, confinement, separation and filtration, Mirafi® H2Ri can also provide continuous moisture management of soil/aggregate materials.

Mirafi® H<sub>2</sub>Ri has unique hydrophilic and hygroscopic wicking yarns that provide enhanced drainage along the plane of the geosynthetic. This leads to a one-of-a-kind ability to remove water from roadways and other structures in unsaturated conditions.

The Difference Mirafi® H<sub>2</sub>Ri Woven Geosynthetics Make:

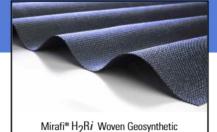
- Moisture Management. The unique hydrophilic and hygroscopic yarns provide enhanced lateral drainage.
- Reinforcement Strength. Higher tensile modulus properties than the leading stabilization products.
- Separation and Filtration. Unique double layer construction provides excellent separation with superior filtration and drainage.

- Soil and Base Course Interaction. Excellent soil and base course confinement resulting in greater load distribution.
- Durability. Robust damage resistance for moderate to severe stress installations.

## **APPLICATIONS**

When superior performance, flexibility and versatility are necessary, Mirafi® H<sub>2</sub>Ri makes the difference for varying application needs including:

- Transporting water against gravity, reducing water accumulation due to ponding
- Increased roadway life expectancy in flexible pavements via mechanical and hydraullic stabilization
- Removing excess moisture from base/subgrade & subgrade soils
- Mitigation of frost heave and frost boils
- Mitigation of lateral edge cracking in expansive clays
- Replacement of drainage fill in high water table areas
- Additional working surfaces including:
  - · Unpaved roads
  - Flexible pavements
  - · Working platforms
  - Airport runways and taxiways
  - Railways



"This product is wonderful because it has all we need in one product: it separates, filters, drains, confines, reinforces and also has the function of moving water at the same plane of the geotextile. Simply amazing!"

-Angel H. Diaz, Owner of Geomembranas y Geosintéticos, SA de CV









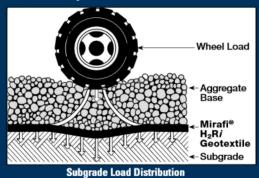


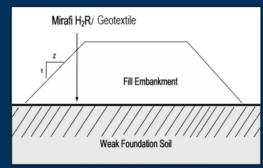
## Mirafi® H<sub>2</sub>R*i* Woven Geosynthetic

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Mechanical Properties	Test Method	Unit	H₂R <i>i</i>	
-	(Patent #7,874,767 and 8,070,395)	Minimum Average Roll Value		
Wide Width Tensile Strength				
MD	ASTM D4595	lb/ft (kN/m)	5280 (77.0)	
CD	ASTM D4595	lb/ft (kN/m)	5280 (77.0)	
Wide Width Tensile Strength @ 2% strain				
MD	ASTM D4595	lb/ft (kN/m)	480 (7.0)	
CD	ASTM D4595	lb/ft (kN/m)	1080 (15.8)	
		Maximum Opening Size		
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	40 (0.425)	
		Minimum Average Roll Value		
Permittivity	ASTM D4491	sec-1	0.4	
Flow Rate	ASTM D4491	gal/min/ft <sup>2</sup>	30	
How hate	A311VI D4431	(I/min/m²)	(1222)	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Minimum Test Value	
Dava Cina (000)	A CTA A DCZCZ	microns	85	
Pore Size (050)	ASTM D6767 ASTM D6767	microns	195	
Pore Size (095)	ASTIVI D0/0/	IIIICIOIIS	133	
Wet Front Movement <sup>1</sup>	ASTM C1559 <sup>2</sup>	inches	6.0	
(24 minutes)	A01101 01000	11101100	Vertical Direction	
(24 minutos)				
Wet Front Movement <sup>1</sup>	ASTM C1559 <sup>2</sup>	inches	73.3	
(983 minutes)			Horizontal Direction	
Zero Gradient				
'STP': Standard Temperature and Pressure				
Modified				
Wet Front Movement (ASTM C1559) is not covered by our current A	2LA accrediation.			
Physical Properties	Unit	H₂R <i>i</i>		
Roll Width	ft (m)	15 (4.6)		
Roll Length	ft (m)	300 (91)		
Roll Area	$yd^2$ (m <sup>2</sup> )	500 (418)		
Rolls should be covered during shipment and properly stored.	10 ( /	000 (410)		

## Mirafi® H<sub>2</sub>Ri Woven Geosynthetics





Mirafi® H2Ri Over Soft Soils

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