

Mirafi® 500X

for Interlocking Concrete Paver Stabilization

PRODUCT DESCRIPTION

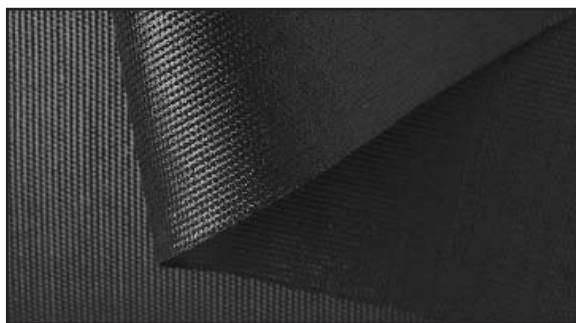
Mirafi® 500X is a woven geotextile comprised of UV stabilized polypropylene slit film. Mirafi® 500X provides excellent puncture and tear resistant properties in addition to high tensile strengths.

FEATURES AND BENEFITS

- **Construction.** Woven construction offers excellent resistance to installation abuse.
- **Strength.** High modulus provide outstanding performance in a wide range of applications.
- **Flow.** Uniform openings provide excellent filtration and flow characteristics.
- **Cost.** Mirafi® 500X geotextiles were developed to improve the economics and performance of roadway systems by reducing the amount of aggregate required, increasing the design life and reducing the maintenance cost, preventing periodic overstressing of the subgrade, and eliminating costly project delays by allowing all-weather construction.

APPLICATIONS

The use of Mirafi® 500X increases the stability of the base material. The geotextile allows for drainage but retains and separates the soil above to stop subgrade material from contaminating the base material. Mirafi® 500X prevents the compacted base course from pushing into the subgrade. Mirafi® 500X is recommended as a separator in all paver applications, but specifically in clay soil applications.



Mirafi 500X Woven Slit Film Geotextile

Mirafi® 140N

for Subsurface Drainage

PRODUCT DESCRIPTION

Mirafi® 140N is a nonwoven geotextile comprised of polypropylene staple fibers. Mirafi® 140N provides excellent physical and hydraulic properties in addition to high tensile strengths.

FEATURES AND BENEFITS

- **Construction.** Mirafi® 140N easily conforms to the ground or trench surface for trouble-free installation.
- **Strength.** Mirafi® 140N withstands severe installation stresses with high puncture and burst resistance.
- **Filtration.** High permeability properties provide high water flow rates while providing excellent filtration properties.
- **Cost effective.** Mirafi® 140N geotextiles provide economical solutions to many civil engineering applications including a cost-effective alternative to graded-aggregate filters.

APPLICATIONS

Mirafi® 140N nonwovens are used in a wide variety of applications including separation, filtration, and protection applications.

Lightweight nonwovens are predominantly used for subsurface drainage applications along highways, within embankments, under airfields, and athletic fields. For these drainage structures to be effective, they must have a properly designed protective filter. Mirafi® N-Series Nonwoven Geotextiles eliminate the problems of determining the aggregate gradation required to match soil conditions.



Mirafi 140N Nonwoven Geotextile



Mirafi® 500X

for Interlocking Concrete
Paver Stabilization

Mirafi® 140N

for Subsurface Drainage

Property / Test Method	Unit	140N
MECHANICAL PROPERTIES		
Grab Tensile Strength		
ASTM D 4632		
Strength @ Ultimate	kN (lbs)	0.53 (120)
Elongation @ Ultimate	%	50
Mullen Burst Strength		
ASTM D 3786	kPa (psi)	1550 (225)
Trapezoidal Tear Strength		
ASTM D 4355	kN (lbs)	0.22 (50)
Puncture Strength		
ASTM D 4833	kN (lbs)	0.30 (65)
UV Resistance after 500 hrs.	% strength	70
ASTM D 4355		
HYDRAULIC PROPERTIES		
Apparent Opening Size (AOS)		
ASTM D 4751	US Sieve (mm)	70 (2.8)
		0.212
Permittivity		
ASTM D 4491	sec ⁻¹	1.8
Flow Rate		
ASTM D 4491	l/min/m ² (gal/min/ft ²)	5500 (135)
Packaging		
Roll Width	m(ft)	3.8 (12.5) 4.5 (15.0)
Roll Length	m(ft)	110 (360)
Est. Gross Weight	kg(lbs)	74 (164) 89 (197)
Area	m ² (yd ²)	418 (500) 502(600)

Property / Test Method	Unit	500X
MECHANICAL PROPERTIES		
Grab Tensile Strength		
ASTM D 4632		
Strength @ Ultimate	kN (lbs)	0.90 (200)
Elongation @ Ultimate	% MD/ CD	15/ 10
Mullen Burst Strength		
ASTM D 3786	kPa (psi)	2756 (400)
Trapezoidal Tear Strength		
ASTM D 4355	kN (lbs)	0.33 (75)
Puncture Strength		
ASTM D 4833	kN (lbs)	0.40 (90)
UV Resistance after 500 hrs.	% strength	70
ASTM D 4355		
HYDRAULIC PROPERTIES		
Apparent Opening Size (AOS)		
ASTM D 4751	US Sieve (mm)	50 (2.0)
		0.30
Permittivity		
ASTM D 4491	sec ⁻¹	0.05
Packaging		
Roll Width	m(ft)	3.8 (12.5) 5.3 (17.5)
Roll Length	m(ft)	132 (432) 94.2 (309)
Est. Gross Weight	kg(lbs)	95 (210)
Area	m ² (yd ²)	502 (600)

www.mirafi.com

WARRANTY

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