

**TENCATE**  
**Mirafi®**

**GEOSYNTHETICS**

**High Performance Geosynthetics for  
Oil and Gas Well Pads and Access Roads**



Protective & Outdoor Fabrics  
Aerospace Composites  
Armour Composites

Geosynthetics  
Industrial Fabrics  
Synthetic Grass

**TENCATE®**  
materials that make a difference

# Think Ahead. Think TenCate.

Do it right the first time with TenCate Mirafi®.



## The TenCate Mirafi® RS*i*-Series

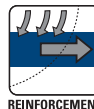
Mirafi® RS580*i* | Mirafi® RS380*i* | Mirafi® RS280*i*

TenCate, the global leader in geosynthetics offers a wide range of products with applications that not only save money, but also improve performance. The recently launched Mirafi® RS*i*-Series is used for varying purposes including well pads, access roads and other engineered structures.

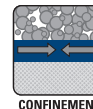
TenCate geosynthetics will reduce the need for aggregate, shorten the wait to begin the project and reduce future maintenance costs. TenCate geosynthetics extend the life of your well pad and access road. We are environmentally friendly, energy efficient and our materials make a significant difference.

## Environmentally Friendly

TenCate's line of geotextiles in the design of your well pads and access roads helps our environment. Reduction in aggregate thickness results in a reduction in the number of trucks entering your site to deliver, spread and compact aggregate. Less trucks equals less CO2 emissions. Reducing the need to constantly maintain your well pads and access roads with additional grading and aggregate also helps our environment. CO2 emissions are kept to a minimum, as your site remains stabilized throughout its life. If your company goals include a reduction in CO2 emissions, TenCate Geosynthetics can help.



REINFORCEMENT



CONFINEMENT



SEPARATION



FILTRATION

# MODULUS • WATER FLOW • CONFINEMENT •

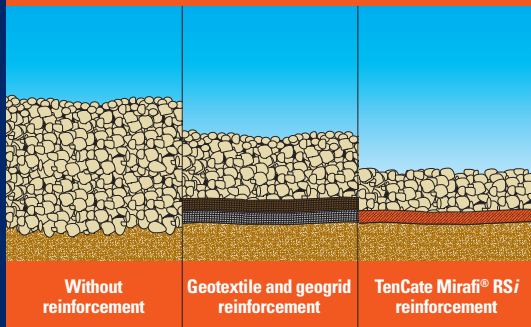
## Problem Solved.

For any soil-aggregate system, Mirafi® RSi-Series is the best solution to reinforce against deformation. From stabilization of construction site roads, haul access roads and construction site staging areas, to foundation pads, well pads, temporary detours and walls.

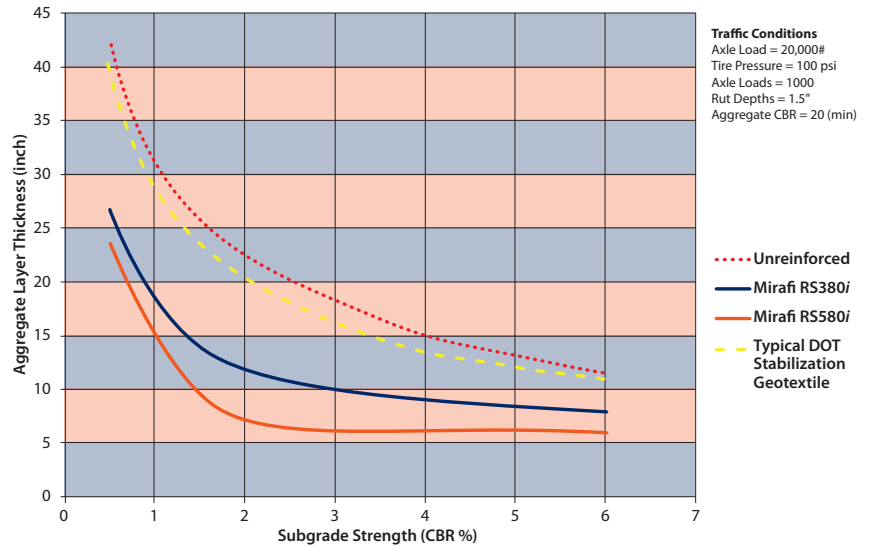
Geosynthetics offer superior strength, durability and versatility. TenCate Mirafi® RSi enhances performance, reduces aggregate and eliminates long term maintenance of well pads and access roads.

TenCate Mirafi® RSi-Series of geotextiles offer industry leading tensile strength at low strain, higher water flow rates and permittivity, superior separation and higher aggregate confinement. All are crucial functions needed to minimize maintenance and allow for less aggregate to stabilize well pads and access roads. Because our engineers and technical support managers are experienced in both design and construction, TenCate is pleased to offer qualified on site assistance, project specific design consultation and expertise for group presentations.

### More Drilling. Less Filling.



### Suggested Stone Thickness for Equal Performance for Mirafi® Geosynthetics based on Subgrade CBR Strength (%)



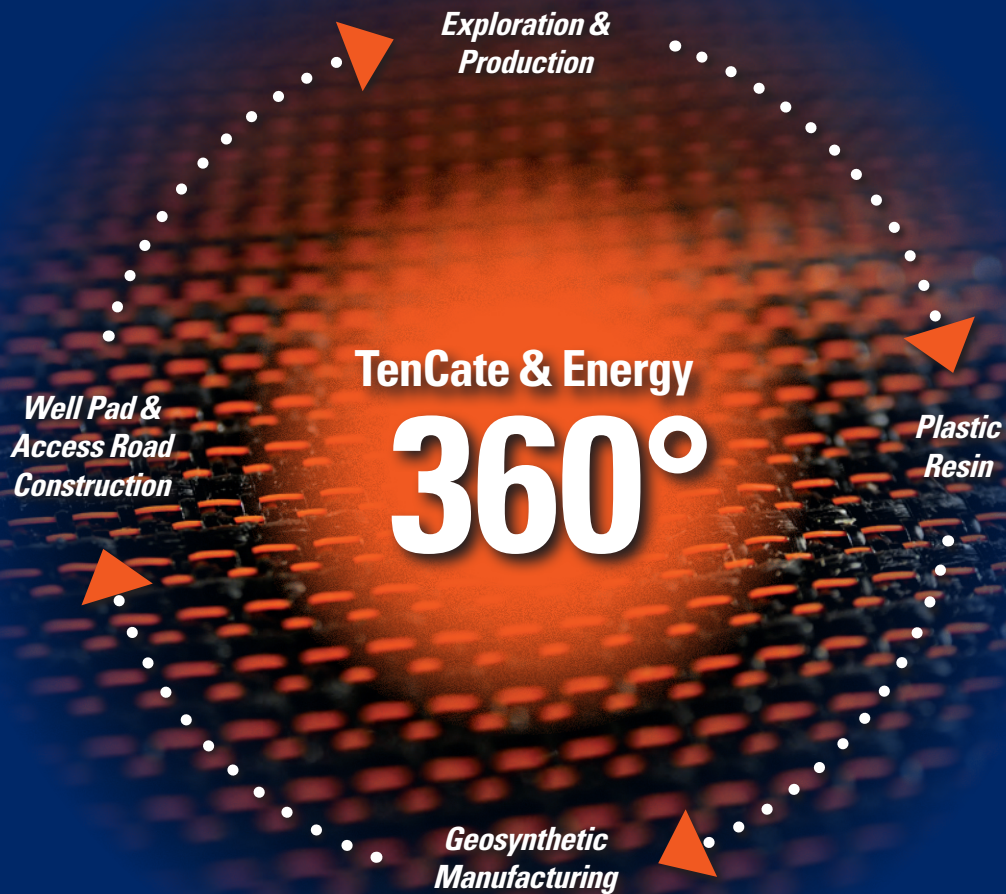
	Soil CBR	Unreinforced Depth (in)	Unreinforced Section Cost	Typical DOT Geotextile Stone Depth	Typical DOT Section Cost	RS380i Stone Depth	RS380i Section Cost	RS580i Stone Depth	RS580i Section Cost
Man sinks 1 – 3"	1.0	31	\$35.65	29	\$35.05	18	\$24.90	15	\$23.25
	1.5	26	\$29.90	23	\$28.15	14	\$20.30	9	\$16.35
Pick-up ruts 1/2 – 2"	2.0	23	\$26.45	20	\$24.70	12	\$18.00	7	\$14.05
	2.5	20	\$23.00	18	\$22.40	11	\$16.85	7	\$14.05
	3.0	18	\$20.70	16	\$20.10	10	\$15.70	6	\$12.90
			PER SQUARE YARD		PER SQUARE YARD		PER SQUARE YARD		PER SQUARE YARD

Notes: All section costs include estimated installed geosynthetic costs, installed aggregate costs estimated at \$20/ton and soil excavation and removal costs estimated at \$0.15/SY-in.



# • SEPARATION • PRODUCT IDENTIFICATION

TenCate® develops and produces materials that increase performance, reduce costs and enable people to achieve what was once unachievable. Our goal is to contribute significantly to progress in the industries in which we work.



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