Why Choose Blue?
Because $\text{H}_2\text{Ri} > \text{H}_2\text{O}$

Choose Mirafi® $\text{H}_2\text{Ri}$ Series innovative Woven Geosynthetic for Soil Stabilization and Base Course Reinforcement Applications where differential settlement occurs due to heaving in the subgrade soils.
Mirafi® H₂R/i is a highly engineered geosynthetic incorporating a unique water-wicking component. This innovative product offers the **ultimate integrated geosynthetic** for roadway subgrade stability in subsoil environments with high moisture content.

**APPLICATIONS**
When superior performance, flexibility and versatility are necessary, Mirafi® H₂R/i makes the difference for varying application needs including: base course reinforcement and subgrade stabilization for road, runway and railway construction; embankment stabilization on soft foundations; reinforcement for mechanically stabilized earth (MSE) structures; liner support, voids bridging, reinforcement over soft hazardous pond closures and other environmental market applications.

**CASE STUDY:**

**CHALLENGE:** The Dalton Highway which runs from the Elliott Highway just North of Fairbanks to Deadhorse, AK which is just a few miles South of the Arctic Ocean is one of the most isolated roads in North America. However, it carries a substantial amount of truck traffic due to the fact that it is the only route for ground transportation to and from the oil fields at Prudhoe Bay. Due to the extremely cold temperatures along the Dalton Highway, costly road damage occurs every year due to frost boils. One problem section is known as Beaver Sliding located at mile 110. The Beaver Sliding is on a down-hill gradient of 11% with a high water table and the frost boils have resulted in unsafe driving conditions and frequent accidents. In the past, expensive repair efforts have shown that the conventional methods do not work.

**SOLUTION:** To solve the problems at Beaver Sliding, Mirafi® H₂R/i was installed under the pavement. Sensors were also installed to measure the moisture content and temperature along the roadway during freeze thaw cycles. Continuous monitoring of the sensors has indicated that the Mirafi® H₂R/i is transporting moisture through the road section without allowing it to boil to the surface and cause soft spots. In fact, follow up site visits have shown the section where the Mirafi® H₂R/i was installed is performing extremely well while surrounding areas of roadway have at times been nearly impassable. With the success of Mirafi® H₂R/i on the Beaver Sliding project, Mirafi® H₂R/i provided an economical solution to combat frost boils for the Alaska Department of Transportation.

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**WICKING CAPABILITY**
Special hydrophilic and hygroscopic 4g yarn that provides wicking action through the plane of the H₂R/i Geosynthetic.

**REINFORCEMENT STRENGTH**
Higher tensile modulus properties than the leading stabilization products.

**SOIL AND BASE COURSE INTERACTION**
Excellent soil and base course confinement resulting in greater load distribution.

**ROLL SIZES**
Mirafi® H₂R/i comes in several roll sizes to fit project requirements.

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**DURABILITY**
Durable under moderate to severe stress installers.

**SEAMS**
Panels can be seamed in the factory or field, providing cross-roll direction strength to facilitate efficient installation.

**SEPARATION AND FILTRATION**
Unique double layer construction provides an excellent separation factor with superior filtration and drainage. Uniform openings provide consistent filtration and low characteristics of a fine to coarse sand layer.

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*Based are comparison of stippled test results by respective manufacturers in 2015 using ASTM D4595.
†After initial pass in AASHTO T348.
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.