

Tracktex™

Geosynthetics for Railway Engineering

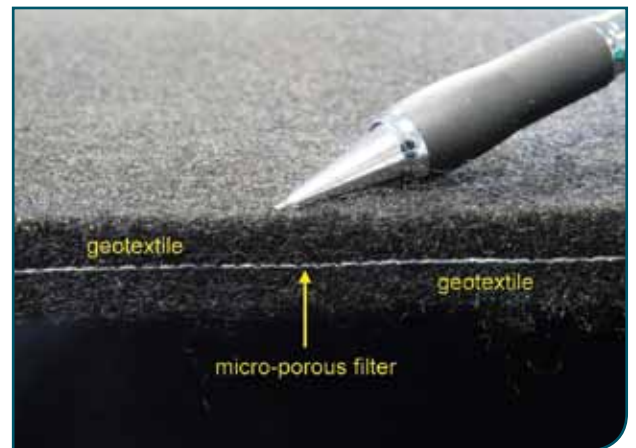
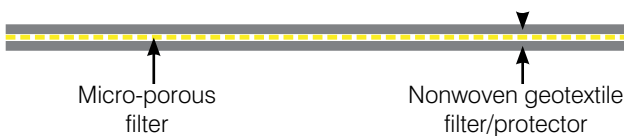
Tracktex™ Formation Treatment

For new track where subgrade erosion is anticipated, or at renewal time where subgrade erosion has caused premature failure.

Tracktex™ is a micro-porous filter sandwiched between two geotextile protectors which, when deployed at the base of ballast, prevents rain water penetrating through to the underlying formation but allows upward movement of water whilst filtering any fine soil particles.

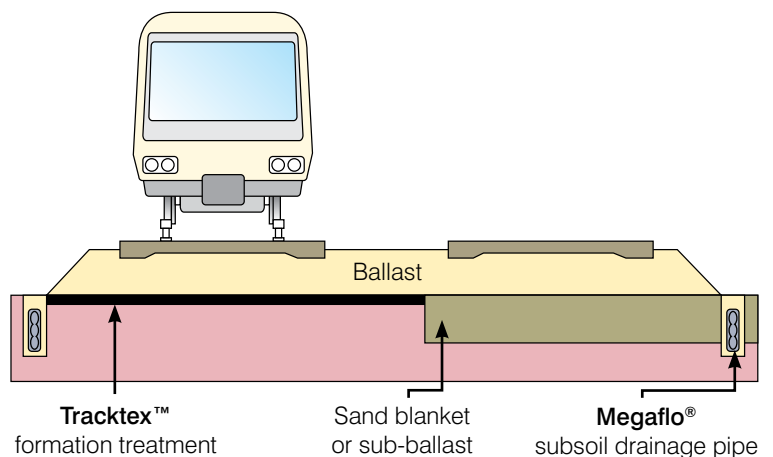
This innovative material is light weight and can be installed in a fraction of the time needed for a sand blanket or a sub-ballast layer.

Tracktex™ formation treatment



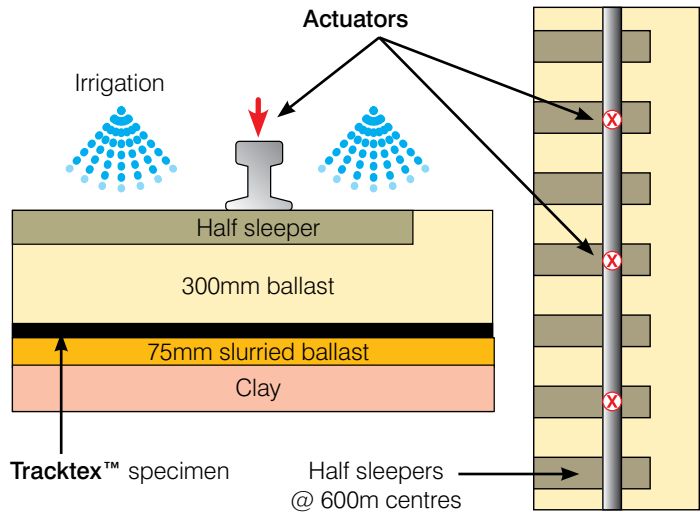
Tracktex™ features:

- Pore water is relieved upwards through the composite under the cyclic loading.
- Rainfall cannot penetrate the micro-porous filter and is drained laterally to the sides of the track.
- Any residual slurry becomes desiccated as any pore water is dissipated.
- Conforms to surface depressions in the formation preventing the formation of slurry pockets.
- Faster installation rates can be used to reduce the likelihood of overruns or increase the coverage for given possession time.
- No requirement for specialist plant.
- Geogrids can be placed immediately on top of the composite.
- Predicted durability of greater than 100 years in soils with pH in the range 3 - 11.
- The compact 25m long rolls by 4m wide, mean that difficult to access track becomes an easier proposition to manage.



Environmental Benefits

The use of a **Tracktex™** composite reduces the depth of excavation that would be required with a sand blanket. This has the effect of reducing the number of vehicles required to deliver materials and decreasing the amount of spoil being taken away.



In a full-sized testing rig the conditions for subgrade erosion were established – 1M cycles. The same conditions were used to evaluate potential solutions. The most successful product, **Tracktex™** sustained 10M cycles (the equivalent of approximately 140 MGT (Million Gross Tonnes) without damage or ballast contamination.

Tracktex™ is the subject of Network Rail Certificate of Acceptance 0504238

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