



Geotouch[®]

**ROADS &
RAILWAYS**

2017 Catalogue

2017

Features Of Geotouch®

Geotouch® Geotextile is the perfect solution for present civil engineering works and tomorrow building challenges. Designed to comply with the modern design requirements, Geotouch® Geotextile is a step forward in comparison to other traditional building products.

MECHANICAL FEATURES

Geotouch® is made with high tenacity fibers of polypropylene and with the best production lines available. Its' mechanical and hydraulic properties are at the top of the geotextiles market.

HIGH PROFITABILITY

It is generally recognized that the use of Geotouch® in building works allow to save raw material costs and improve the work performances if compared to traditional building technical solutions.

EXCELLENT FILTRATION:

The characteristic opening size of Geotouch® is designed to retain particles while allowing free movement of water, making it possible to separate two layers during intense hydraulic activity. Geotouch® preventing the ingress of fines into drainage media and provide the same flow rates on the job site, eliminating future clogging and costly project damage.

ROADS



TEMPORARY ROADS

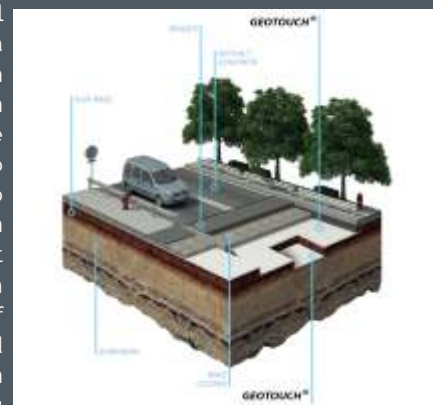
Geotouch® Geotextiles placed below the top gravel layer increase the bearing capacity of the road to withstand continuous heavy traffic loads. No cars, tractors or other vehicles will become stuck in the gravel.

PERMANENT ROADS

Geotouch® Geotextiles placed below the top gravel layer increase the bearing capacity of the road to withstand continuous heavy traffic loads. No cars, tractors or other vehicles will become stuck in the gravel.

CHARACTERISTICS REQUIRED FOR USE IN THE CONSTRUCTION OF ROADS AND OTHER TRAFFICKED AREAS

The design of a road is basically conditioning - in addition to the structural assessment - by its resistance to dynamic loads . This type of cyclic phenomena define the durability of the floor itself. This is a function of the limit of exercise, which for a paving can be defined as the time horizon in which they occur cracks or an excess of deformations occur; all these phenomena depend on the nature of the embankment. The research in the field of road embankments tend therefore to analyze the behavior under the effect of repeated loads, that is in conditions similar to those of exercise, in order to design the structure considering the initial construction costs and the maintenance. It is evident that at a lower cost and low initial investment correspond to a greater burden of maintenance and greater discomfort for users. In the design phase, normally the engineers act both on the composition of the layers of the pavement, and foundation materials used, but you can also choose to add elements, such as geotextile Geotouch®, able to perform the function of separation and drainage. Doing this is possible to improve the overall bearing capacity, reducing the permanent deformation and retards of the cracks development.



RAILWAYS

The rapid increasing of speed and weight of trains place heavy demands on the bearing course. Geotouch® Geotextiles stabilise the foundation, enabling it to withstand dynamic loads.



CHARACTERISTICS REQUIRED FOR USE IN THE CONSTRUCTION OF RAILWAYS



As for the roads, the problem of global instability of railway embankments constructed on medium and low bearing capacity soil, can be solved by placing an Geotouch® geotextile on the foundation of the series. Geotouch® made of very tough polypropylene. This has the function of geosynthetic separator between soils of different quality and in some cases can compensate the insufficient shear strength of the soil by absorbing the tensile stresses generated along the sliding surfaces and transferring them to the stable part of the embankment.

FUNCTIONS OF GEOTOUCH®

Separation
Filter
Drainage

