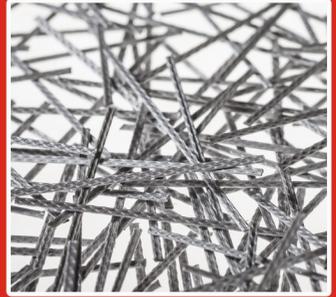




ADFIL
Construction Fibres



Adfil Fibres
Road & Track
Applications

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Reinforced concrete reinvented

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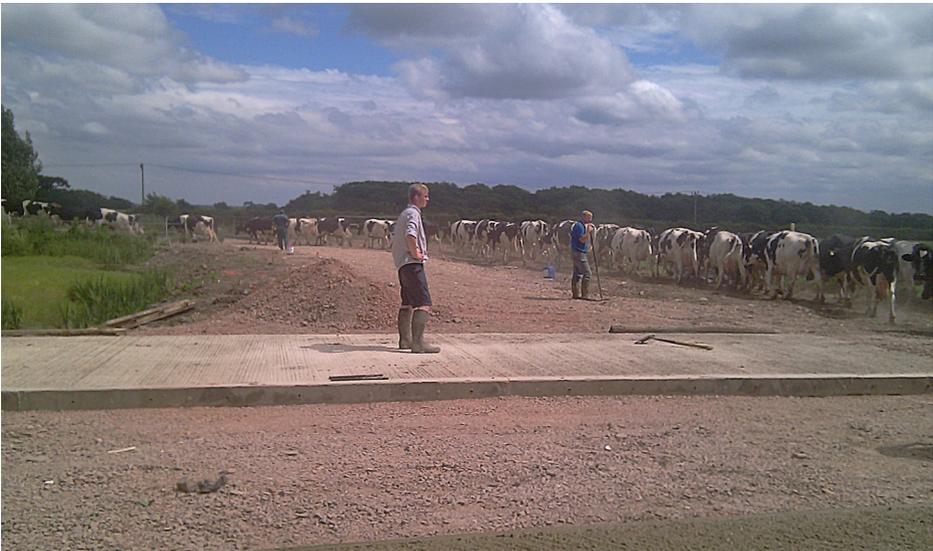
Synthetic Fibre Reinforced Concrete In Road & Track Applications



Adfil Macro & Micro Synthetic Fibre Reinforced Concrete provide significant benefits in the construction Roads & Tracks

Challenges

Roads & Tracks usually are constructed in a continuous build method, where you will pour your concrete continuously, usually in remote area's where there isn't any existing roads to be able to deliver steel mesh reinforcement to the location it is needed. Also there is also a risk that the steel may not be placed in the correct position within the slab. There is also usually the need to be able to use the road or track as soon as possible so quick construction is key.



Cattle Farm Track

Synthetic Fibre Reinforced Concrete In Road & Track Applications



Solution

The replacement of conventional welded steel mesh with DURUS Synthetic Fibre will speed up the construction of your roads and tracks, as the concrete arrives with the reinforcement already in it, meaning that you can continually pour reinforced concrete without having to back track every time to collect & then place steel mesh. The fibres reinforce the road or track in a three dimensional matrix, meaning that there will be no misplacement of the required reinforcement . With fibre concrete you will also benefit from a better wearing surface and the service life of the road or track will be longer due to the reinforcement not being susceptible to corrosion and have an increased impact resistance.

Road ways

This road was constructed using Durus Macro Synthetic fibres to replace 2 x layers of A393 steel mesh. The subgrade ground conditions were sufficient that Adfil's engineer produced a design able to take the loading of military vehicles and crane loadings, as this is an ex military vehicle storage facility. The whole road was poured in just two days as there was no need to place and fix steel mesh reinforcement. It was cast in a continuous strip pour with six meter saw cuts made withing 24 hour of casting.



Misson Ex Military Vehicle Depot



Synthetic Fibre Reinforced Concrete In Road & Track Applications



Gaynes Farm Track

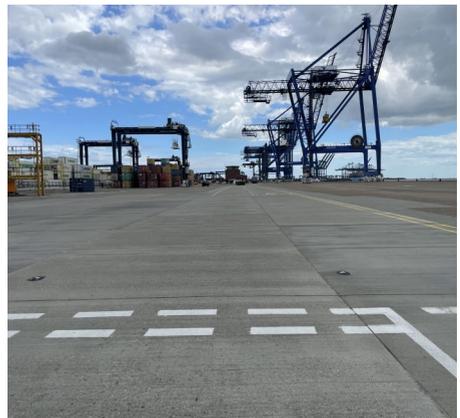
This Track was constructed in 2005 using the first Durus fiber S100 at a dosage of 5kgm³. Today 18 years in the future the track is still in the same workable perfect order as it was when it was constructed. You can still see the brush lines showing the roads proven service life. The track is used daily by livestock and delivery vehicles. Today this road would have been done in just 2.5kgm³ of Durus EasyFinish fibre.



Farm Track placed 18 years ago

Felixstowe Port Road

Port Roads are susceptible to continuous heavy traffic . Not only the weight of the cargo being hauled around the site but the thousands of vehicle movements per day. This port road was originally block paved, but the volume of traffic made the paving too unstable which lead to the failure of the road. The solution was solid concrete. Because the port roads are in constant use it would be difficult to cordon off sections for long periods of time, So a quicker and easier method was required. Adfil's design team were able to offer the port contractor a solution that not only gave them speed on construction but a concrete that had guaranteed placement of reinforcement and improved the service life of the concrete.



Port Road



UK Technical Sales

Assistance

For any assistance please contact one of the following to get appropriate technical support:

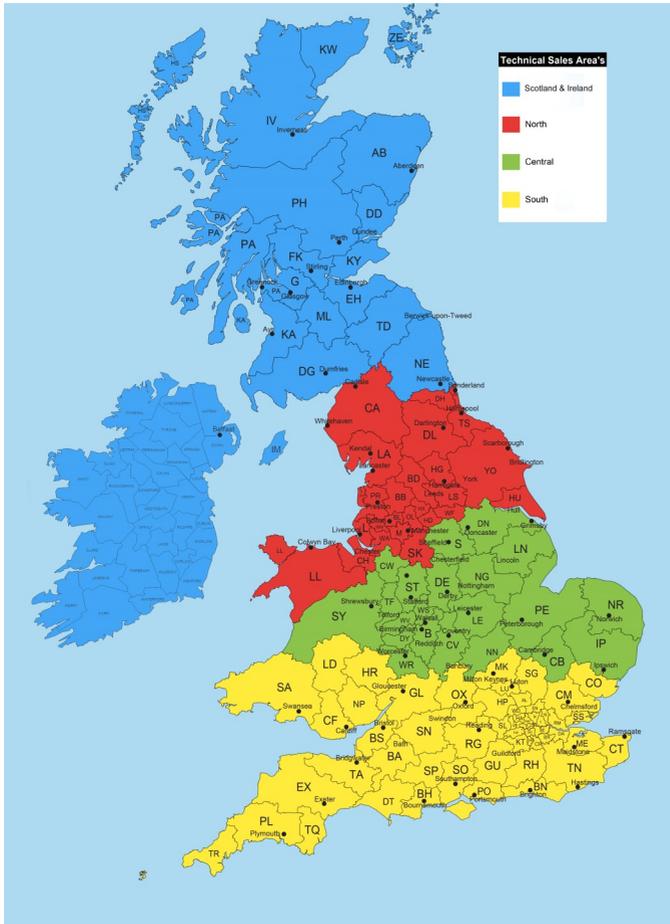
Scotland & Ireland :
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