RT20 Technical Summary

RT20 Dynamic is a liquid soluble, environmentally safe additive that enables soil and gravels to attain a much higher density and strength than could be attained in natural materials for road construction.

RT20 Dynamic enables the treated material to be compacted faster using less water, improving CBR strengths and increasing densities by reducing the void spaces between the soil particles in turn reducing waters ability to permeate through the compacted material.

Laboratory tests using RT20 have indicated CBR improvements between 30 to 120% depending on the material being tested (figure 1). Tests have also indicated improvements in Maximum Dry Density and reductions in Optimum Moisture Content, which relate to significant cost savings in construction water.

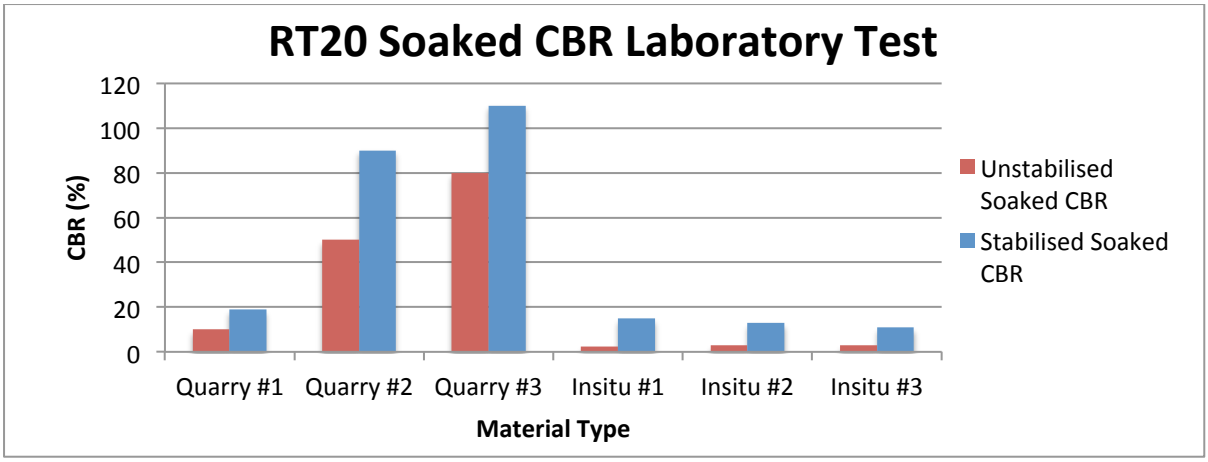

Figure 1 - Soaked CBR Laboratory Testing Results

RT20 can effectively be used to reduce pavement thickness when designing roads. For example:

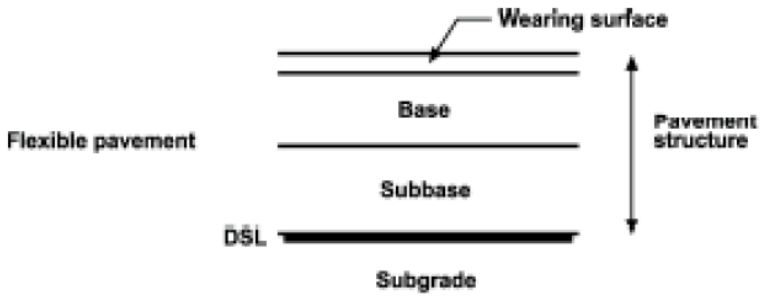

Figure 2 - Structure of Pavement

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From figure 2, RT20 improves the CBR of the “Pavement Structure” therefore increasing its strength. By increasing the strength in the pavement structure, less material is required to construct the road to the same standard. This not only reduces the amount of aggregate required, but also significantly reduces the cost of transport for material.

Deformation of a road is attributed to deflections in layers as well as layer settlements. By improving the wearing layer, road deformation becomes more attributed to sub-base settlements rather than wearing layer and base deflections. This results in reduced **maintenance** as tyre penetration and deterioration is reduced. RST is responsible for soil stabilisation, and the extent of this is based on product application procedures.

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