



Proven Technology for Stabilisation Applications with all Soils Types



Piling Mats



Heavy Duty Crane Pads



Temporary Haul Roads



Un-surfaced Highways



Container Bases



Drilling Platforms



Permanent Highways



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PowerCem Technologies offers products that enable the cement hydration process to be modified and a host of optimised and improved mechanical properties to ensue. The modified cement bound materials have been used successfully on thousands of projects worldwide. The main advantage of PowerCem technology is the use of in-situ materials in such a way that in general only about 10-20% new building materials are needed compared with a traditional pavement construction.

This unique ability to bind secondary material instead of using the increasingly scarce primary building material has led to creation of highly durable construction material that offers a variety of benefits confirmed by international organisations in research such as UNESCO , TU Delft and University of Ulster, including:



Cost reduction



Significant construction time reduction



Higher quality and more durable construction



Lower maintenance costs



Environmentally friendly construction

RoadCem™ ability to turn local soils and even waste material such as silts and sludge into strong building materials, offers a convincing vision for a sustainable future whereby scarce and expensive primary building materials can be replaced by all that is in-situ and used for not only pavement construction, but also other load bearing uses in civil engineering applications.

One of the products RoadCem™ is used in several applications such as:



Construction Platforms – RoadCem™ high modulus of elasticity provides a durable and level surface, using the existing in-situ soil, with improved efficiency and safety for all construction activities; support platforms for steel work erection, mobile cranes, storage/lay-down areas and any heavy plant operations are amongst typical uses.



Piling Mats – A typical piling mat requires a platform that can be penetrated effectively in a safe manner without losing integrity. A RoadCem™ piling mat can be made rapidly using the existing site soil and formed at a level and strength that would work well with most types of piling technology without any cracking.



Permanent Works – RoadCem™ stabilised layer can be used either as a foundation to improve the load bearing capacity or in many cases in place of ground bearing slab.



Car / Bus Parks – RoadCem™ can be used effectively as a car/bus parking base as an alternative to either flexible or rigid pavement, reducing the costs significantly and increasing the performance and durability of the pavement.



Permanent Roads – The RoadCem™ stabilised layer is a great pavement foundation and replaces the conventional construction, offering significant savings on cost and time of construction. In most cases for a permanent road construction a 40mm asphalt wearing course will suffice as the trafficked layer on top.



Airport Taxiways/Aprons – A cost effective and higher performance alternative to conventional construction offering a more durable pavement and constructed in a fraction of time with less import of construction material.



Temporary works of all types, RoadCem recyclable soil concrete produced from all soil types can be used un-surfaced for roads and compounds. With maintenance free durability and resistance to flood and frost.