

Gravel Lock



Flexi-C-Ment

Long Term Pavement Stabilization



WHERE SCIENCE

MEETS THE EARTH



Flexi-C-Ment builds strong flexible pavements in rural roading, motorways, highways and construction sites.

Using Flexi-C-Ment you can significantly lower construction costs by the reduction of aggregate demands, decreased construction times, decreases in ongoing maintenance and, a significant reduction in the loss of expensive replacement aggregates.

FCM provides significant benefits to the project such as increases in strength, waterproofing characteristics, resistance to chemical penetration and, freeze-thaw durability.

Pavements can be trafficked immediately after final compaction and, once cured, provide a hard-wearing surface for traffic.

PRODUCT BENEFITS

Polymer additive for conventional cementitious pavement stabilizers

- Rehabilitation, recycling and strengthening of existing granular pavements
- Successful in areas susceptible to high rainfall
- Stabilization of soft ground conditions where a stiff bridging layer is required
- Rapid infrastructure of temporary pavements or hardstands on construction sites
- Marginal or high organic material can be modified and improved, making them suitable for purpose
- FCM is a low cost alternative to foam bitumen stabilizing when compared to standard construction - 40% cheaper and 3 times stronger
- FCM is an ideal road repair product for the sealed network as it has the capability to bridge weak subgrades without the need for dig outs.
- Road repairs can remain unsealed for up to 2 months which allows the contractor to complete multiple repairs at once
- Where water is limited FCM is able to be used with brackish or potable water





Flexi-C-Ment



Treat Marginal Material with FCM

From pathways to Highways

Stabilize your outback Rural Roads

FAST FACTS



Flexi-C-Ment installations are extensive and include the following:

- Rural Roding
- Civil Construction
- Highway Construction
- Mining Applications
- Runway Applications
- Haul Roads - Forestry, Mining, Construction Sites & Agriculture

Flexi-C-Ment can be applied using three application methods.

No specialised construction equipment is required.

- Grader
- Mill
- Batch or pug milled

*** (application methodologies available on request)

The Facts

With the continual need for improvement, Gravel Lock developed Flexi-C-Ment a polymer modification for traditional cementitious stabilizing agents. Our aim was to modernize the way aggregates are stabilized with the added benefit of saving time, money and natural resources. Using Flexi-C-Ment your engineers can increase the amount of cement without the worries of fatigue, brittleness and water ingress whilst increasing tensile, flexural and CBR strengths.

Features and Benefits

- Flexi-C-Ment can yield a 50% reduction in overall pavement depth compared to traditional construction methods
- Flexi-C-Ment lasts longer – up to 1.5-3 times than traditional construction methods
- Significantly reduces or eliminates shrinkage and cracking generating higher tensile, flexural, and compressive strengths for the same cement content
- Improved workability for construction crews, safe and easy for construction crews to use - Not heated like foam bitumen methods
- Where construction times are limited, trained applicators can install up to 6000sqm per day of finished pavement
- Rehabilitation, recycling and strengthening of existing granular pavements
- Where there is limited local material, Flexi-C-Ment can be milled with the insitu material to bring up marginal pavement gravels suitable for purpose, improving and modifying organic and non-organic subgrades and base course layers
- Enhanced resistance to weathering and improved long term durability with respect to high temperatures, high rainfall and freeze thaw cycles
- Provides the customer with a water resistant pavement
- Where construction water availability is limited, brackish water is able to be used
- Rapid curing at ambient temperatures

Disclaimer, The data presented is in accordance with the present state of our knowledge, but does not absolve the user from carefully checking all test results by conducting their own trials. We reserve the right to alter product constants within the scope of technical progress or new developments. Any recommendations made in our literature should be checked by preliminary trials because of conditions during application over which we have no control, especially where raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular

