

CHEMILINK™ SS-111

Stone Stabilizing Agent

Description

Chemilink™ SS-111 is a modified polymer cementitious binder delivered in fine powder form. It has specially been designed to overcome the current construction difficulties of cracking and too high resilient modulus caused by various cement stabilizations. Chemilink™ SS-111 stabilized various crushed stones with shrinkage cracking resistance effect can provide the asphalt concrete surface a comfortable base course with sufficient strengths and a reasonable resilient modulus which is equivalent to that of the asphalt concrete. SS-111 sub-series include several similar but independent-to-use products to solve various engineering issues at different conditions and requirements (e.g. different resilient moduli or water-proofing effects). It is an ideal stabilizing agent for crushed stone and gravel stabilization mainly for the base course of airport runways/taxiways, highways and high profile roads with higher traffic loading and frequency.

Technical Data Range (Stabilized Stone)

Stone Types	Dosage (%)	Soaked CBR (%)	UCS (MPa)	Resilient Modulus MR (MPa)
Crusher Run/Graded Stone	1.5 to 5	> 90	1.5 to 8	1,000 to 10,000

Functions

- Shrinkage compensation effect to minimize or eliminate cracking;
- Moderate strengths increment;
- Less hardness and more flexible modulus; and
- Semi-waterproofing.

Benefits

- Immediately solve the issues caused by various cement stabilizations (such as cracking and too high resilient modulus) for road base course; and
- Others are similar to those of Chemilink™ SS-108

Quick road repair during the night



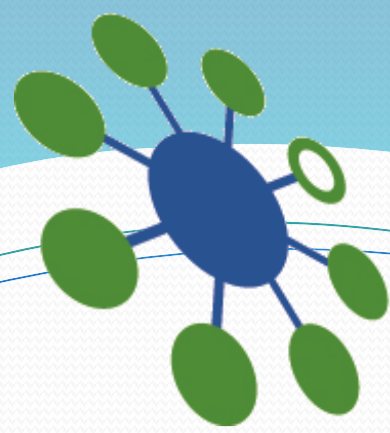
Construction Sites

Typical Applications

- To be used as the road base or base course of the projects which are similar to those of Chemilink™ SS-108; and
- To be directly used as the surface course of temporary airport runways/taxiways/ parking areas, high profile temporary/construction roads and other shallow base foundations (temporarily or permanently).

Construction Procedure

- Spreading SS-111 on the surface of the stone to be stabilized;
- Mixing SS-111 with the stone; and
- Compaction of the stabilized layer



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ZERO WASTE ENGINEERING

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In addition, the results achieved using the Central Mixing Plant could be better under favourable conditions.



Central Mix Plant



Mixture after Paving and Compaction

Notes on Stabilized Base

The bituminous surface should immediately be laid on the stabilized base and the thickness of the surface should be at least 100~150mm, in order to minimize or eliminate the chances of reflection cracking.

Package and Storage

Package: 25kg/bag, 800bags/20ft. FCL or 1t/bag, 20 bags/20ft, FCL

Shelf Life: 6 to 12 months from the date of manufacture when stored sealed in a dry and cool place

Precautions

Wear gloves and goggles while handling the product. Any contact with the skin or eyes should be washed off with clean water. In the event of prolonged irritation, seek medical advice. Powder products should be handled with care to minimize dust formation. Use a light mask if excessive dusting is unavoidable.

Project Examples



Stabilized Local Crush Run



Road Maintenance



Road Project



Airport Project

Jan 2013



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