



RoadPlus

Soil Stabilization and Compaction Aid for Low Cost Roads

Uses

- Used as a compaction aid where in mechanical compactive effort and water quantities are significantly reduced.
- Used to increase higher in-place densities values compared to the traditional methods.
- Used as a soil stabilizing agent.
- Used to achieve a stabilized surface, which will show reduced dusting and rutting characteristics.

Typical Applications & Advantages

- Offers substantial savings in time, plant and water when compared to conventional compaction methods.
- Increases the in-place density of in-situ soils and layer works during backfilling or road construction.
- Improves strength characteristics of compacted soils by improving workability and bearing capacity (CBR).
- Enables less compactive effort at Optimum Moisture Content (OMC).
- Reduces the maintenance requirements for unsealed roads. Increases durability of soils by 'waterproofing' the same.
- Reduces the dust factor and improves the riding quality of unsealed roads, by reducing rutting and raveling.
- It is also possible to improve existing road materials, when they are lacking natural cohesive properties.
- Increases the service life of paved roads where unsuitable or poor quality sub grade material is being used.

Product Description

RoadPlus is a viscous, complex organic liquid chemical designed to be used as a compaction aid and soil stabilization agent. It is suitable for aggregates or natural soils containing clay minerals or high concentrations of iron oxides, calcium carbonates and other amorphous materials such as quartzite and gypcretres.

Typical Properties

Appearance	: Pale pink liquid
Specific Gravity	: 1.02 at 25±2°C
pH	: < 3

Technical Support

GIC provides a comprehensive technical support service to specifiers, end users and contractors and is able to offer on-site technical assistance.

Recommended Soil Specifications

Plasticity index	: > 8%
Bar linear shrinkage	: > 4%
Percentage passing 0.075mm	: 15-55%
Min density mod. AASHTO	: 98%
Min in-situ CBR at OMC	: 35 for 50 vehicles per day.

Instructions for Use

RoadPlus is recommended normally for the above-mentioned soil specifications. If the above soil specification is not available in that particular area of construction it is not advisable to use **RoadPlus**.

Common road construction plant is used for all applications. The approved material is imported, spread and pre-shaped in accordance with the required lines, levels and layer thickness as required by the customers.

The correct amount of **RoadPlus** is then diluted and sprayed evenly onto the section through water tankers. The layer is mixed until homogeneous, leveled and compacted at Optimum Moisture Content (OMC).

Thereafter slushing may take place. The treated section is cured whilst closed to the traffic. Finally, the cured section is opened to the traffic.

Coverage

Typically, one drum of 210 litres will be sufficient to stabilise or compact an area of 8,000 m².

Packaging & Storage

RoadPlus is supplied in 20 litre and 210 litre drums and it has a minimum shelf life of 12 months provided it is stored under cover, out of direct sunlight.





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Health & Safety Precautions

RoadPlus does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately – do not induce vomiting.

For further information, refer to the Material Safety Data Sheet available for this product.

Important note

GIC endeavors to ensure that the technical information contained herein is true, accurate and represents our best knowledge and experience. No warranty is given or implied, as GIC has no control over the conditions of use and the competence of any labor involved in the application are beyond our control.

As all GIC technical data sheets are updated on a regular basis it is the customer's responsibility to check that the product is suitable for the intended application, and that the actual conditions of use are in accordance with those recommended.

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