

STABILISATION OF UNPAVED ROADS

Nowadays Incofil offers an environmentally safe solution with Soil Sement® which is able to overcome the problems associated with the stabilisation and consolidation of natural soil paving in its most extensive applications, for example by increasing the lifespan of the paving and extending the periods between maintenance, thus reducing the related costs.

WHAT IS SOIL SEMENT®?

Soil-Sement® is a powerful liquid-emulsion stabilizer formed by a **non-toxic** polymer binder that guarantees effective dust and erosion control. The key to the outstanding performance of Soil-Sement® is its unique ability to penetrate, saturate, and bond together surface dust, to aggregate and "cement it" to the base so as to create a resilient, hard and dust free surface. Thanks to our **30-year** experience, we can assure that Soil-Sement® is the **only** emulsion used for soil stabilisation, erosion control and dust control which is environmentally **safe**.

WHY CHOOSE IT?

Soil Sement®'s effectiveness results from the length and strength of its polymer molecules and from their ability to bond with the surface materials.

Its surface is water -and wind- resistant.

It is a true giant compared to the much smaller molecular structure of other similar products such as petroleum, calcium chlorate, resins derived from petroleum, as well as products originating from asphalt emulsion.

APPLICATION

Ideal for stabilising access roads to parks, gardens, protected areas, golf courses, sports centres, cycle lanes, parking areas, construction sites and for sealing porphyry pavings.

Soil Sement® is able to control dust emissions, prevent erosion and protect deposits of lime, mineral slags, coal, waste and contaminated materials, in the short- and medium-term.

MAIN FEATURES

Il Soil Sement® is the only emulsion which does **NOT** require the use of cement and does **NOT** modify the inert colouring, thus leaving the natural colour of the ground unchanged in respect of the environment.

Soil Sement®, at the customer's discretion, allows the construction of draining or waterproof pavings by changing the inert particle size, regardless of the final use of the surface itself.

Soil Sement® allows applications at temperatures ranging from 5° to 50° solely by changing the water quantity during the working phase. It also allows the use of any inert, thus giving the possibility to reduce the costs of materials by using what is present on the site. Soil Sement® is easy to use and does not create problems to the enterprise because it allows the correction of possible errors occurring during application, simply by varying the quantity of water.

Soil Sement® allows the construction of roads with inclinations over 20% without the need for electro-welded nets, geogrids and TNT.

Soil Sement®, in contrast with other cement-based products, stabilises the pavings and bonds fine soil particles, thus eliminating dust problems due to the transit of work vehicles.

Soil Sement® is used for stockpiles in inert storage areas, quarries or mines, to block the raising of dust or runoff due to atmospheric agents.

Soil Sement® allows the **sealing** of new and already **existing porphyry pavings**, simply by mixing sand and water. By creating a flexible structure which may replace rigid cement, Soil Sement® can guarantee impermeability, frost and thaw resistance, thus ensuring a longer life span to pavings.

SPECIFIC APPLICATION

Soil Sement® can be used for stabilisations, erosion control and dust suppression. It can be applied in different ways depending on the required needs.

TOPICAL APPLICATION:

- Soil compaction.
- Wetting of product mixed with water.

MILL SEMENT:

- Milling of old pavings.
- Surface **WETTING** with product and water.
- Further passage with a milling cutter to **amalgamate the soil with the emulsion**.
- **Compaction with an adequate size road roller.**
- **Final wetting with water and Soil Sement®.**

MIX SEMENT:

- **Mixing in plant or mixer.**
- **Spreading of the inert with vibrating finishing machine on a compacted surface.**
- **Compaction with an adequate size road roller.**
- **Final wetting with water and Soil Sement®.**

Soil Sement® is proposed in different types depending on the characteristics of the site. In fact any work requires the compilation of a **check list** where our technicians are able to indicate the more suitable Soil Sement® for a specific site, the quantity of product to be used and the type of application.

SOIL SEMENT TYPES	APPLICATION FIELD
STANDARD FORMULA	cycle lanes, pavements, alleys and gardens
NEW FORMULA	driveways, parking areas
ANTI-ICE	low temperature pavings
ANTI SALT	pavings in saline environment
ENGINEERING	high altitude pavings

