

PREI-16 — Chemical Soil Stabiliser

Ionic additive for stabilisation and dust control

1. Description

PRO-ROAD® PREI-16 provides a flexible yet strong cohesive bond for a wide range of materials and particle surface areas. The stabiliser reacts chemically with soils and acts on their fine fraction, reducing plasticity and allowing increased density, void reduction and better compaction. Because of its electrochemical action it is an excellent additive for conventional stabilisation processes with cementitious agents — soil-cement, soil-lime and similar — whose consumption it can significantly reduce.

2. Applications

- Unpaved roads and rural, mining and forestry surfacings.
- Muddy roads and access ways with bearing-capacity problems in the rainy season.
- Quarries, stockpile yards and working platforms.
- Landfills and disposal cells.
- Internal haulage of materials and minerals.
- Stabilisation of subgrades, sub-bases and bases prior to paving.

3. Typical properties

Property	Typical value
Appearance	Viscous liquid, colourless to slightly amber
Chemical base	Sodium silicate solution with surfactants
Solubility in water	Complete, in any proportion
Flammability	Non-flammable
Shelf life	12 months from the date of manufacture, in sealed packaging
HS code	3824.40.0000

Typical production values; they do not constitute a sales specification. Optimum dosage must be established through laboratory testing on the project soil (Atterberg limits, modified Proctor, CBR and unconfined compressive strength before and after treatment). PRO-ROAD® provides this mix design service to its customers.

4. Handling and application

The product is dosed diluted in the compaction water. The usual sequence comprises: scarification of the material to the design depth, application of the diluted product by water tanker, homogeneous mixing with a reclaimer or harrow, shaping and compaction to the specified degree, and curing according to site weather conditions. When combined with cement or lime, the additive is applied before the cementitious agent is incorporated.

5. Storage and transport

Store in a controlled environment, protected from freezing and from direct sunlight. Keep containers closed. Do not store next to strong acids. Typical shelf life of 12 months from the date of manufacture in the original sealed container.

6. Packaging and logistics

200 L drums · 1,000 L IBCs · in bulk in isotank for export. Packages are labelled in accordance with GHS.

Consult the product Safety Data Sheet (SDS) before handling.

The information in this data sheet is offered in good faith, based on PRO-ROAD®'s technical knowledge of its products and on the requirements of the standards cited. It does not constitute a sales specification or a warranty of results. The customer is responsible for verifying the suitability of the product for its intended use, for its correct handling and for its application in accordance with project specifications. Values guaranteed per batch are certified in the corresponding quality certificate.