

TECHNICAL DATA SHEET

Road Material Stabilisers

(Pty) Ltd

1986/004184/07

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ISS 2500 Ionic Soil Stabilizer

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DESCRIPTION:

ISS 2500 is an electrochemical clay soil stabiliser suitable for improving marginal or substandard soils for use in the construction of roads.

APPLICATION RATES:

% passing 0.075 <10%: 0.01-0.02 L/ m²

10-15%: 0.02-0.03 L/ m²

15+%: 0.03 L/ m²

(refer to manufacturer before use)

BENEFITS:

- Economical construction method for use in gravel and surfaced roads
- Increase in compacted densities and bearing capacities
- Greater use of in-situ material
- No specialised equipment required
- Treatment is permanent
- Roads can be opened to traffic immediately

PREPARATION:

- Establish the suitability of the soil prior to construction
- Fill the water bowser and then add the required amount of ISS

APPLICATION:

- Scarify area to 150-200 mm depth
- Large clods or agglomerations to be broken to max 50 mm
- Add the required amount of ISS directly to the water bowser with the moisture needed to bring the material to optimum moisture content (OMC) for compaction. If the material is at OMC, a minimum amount of 1litre water/m² should be used
- Spray the ISS-water mixture over the entire area in multiple passes
- The area is to be thoroughly mixed until OMC is achieved
- Should more moisture be required after the application of the ISS to achieve OMC, use clean water
- At OMC, the area should be levelled and compacted to required density
- Any exposed ISS-treated areas should be lightly watered twice daily for three days or until covered

CHARACTERISTICS:

Appearance	- oily, dark/red coloured, with characteristic odour
Specific gravity	- 1.14 @ 25°C
pH	- <2
Diluent	- water

HAZARDS:

Fire	- non-flammable
Explosion:	- non-explosive
Skin	- prolonged contact can cause minor burns
Ingestion	- harmful
Eyes	- may cause irritation or corneal burns

PRECAUTIONS:

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Wear protective clothing for sensitive skins
Do not ingest
Avoid splashing

FIRST AID:

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-
Rinse with water
Do not induce vomiting*
Flush with water for min 20 min*
*(Seek prompt medical advice)

STORAGE:

Store under cover and protect containers from direct sunlight	
Storage temperature	- -5-60°C
Transport temperature	- -5-60°C

PACKAGING / LABELLING:

Packed:	- 20/100/200 litre plastic drums
Label:	- company details and contact numbers