

OUR CLIENTS



Because electrical safety can never be compromised.



Earthing soil that effectively reduces soil resistivity:

It is critical that the correct electrical earthing system be chosen as this can affect both safety and electromagnetic compatibility of a building's power supply. Lightning needs to reach the ground. It follows the path of least resistance to do so until it reaches the ground and is dispersed safely through a professional grounding system.

It is essential to alter soil resistance for a correct earthing system. Costly electrodes installations do not provide the required resistance.

EarthCon Regular is the appropriate answer for correct artificial treatment of soil resistance. On application, soil resistance is reduced to approximately 55% of the original value, depending upon soil conditions. This creates the perfect earthing system for the environment made thoroughly safe.

Dig into the Earthcon Regular Advantage!

- Artificial Treatment Compound
- Achieves resistance acceptable to any International Body
- Low Step and Touch Potential
- Corrosion Free & Long Life
- Environmental Friendly Certified by Karnataka State Pollution Control Board
- RoHS Compliant
- MSME tested for Resistance Consistency
- Saves Electrical & Sensitive Electronic Equipments from Ground Faults

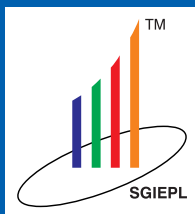


Professional Earthing System from SGI Engineers Pvt. Ltd.

EARTH CON Regular

Safe, artificial treatment for earthing systems.

Our Associates:



SGI ENGINEERS PVT LTD
 # 1031/14, 1st & 2nd Floor, 39th Cross, 26th Main Road,
 4th 'T' Block, Jaya Nagar, Bengaluru - 560041. INDIA.
 Tel: +91 80 4121 0467, Fax: +91 80 4157 5792
 Email: info@sgihouse.in, sgiindia@gmail.com
 Website: www.sgihouse.in

EARTHCON - DATA SHEET

PRODUCT & COMPANY IDENTIFICATION

Product Name : Earthcon Regular (IEEE 80:2000 Clause 14.5b)
 Use : To prepare ionic enhancement treatment for soil to improve Earthing Systems
 Presentation : 25 Kg Bag
 Code : Earthcon - Regular
 Manufacturer : SGI Engineers Pvt. Ltd.

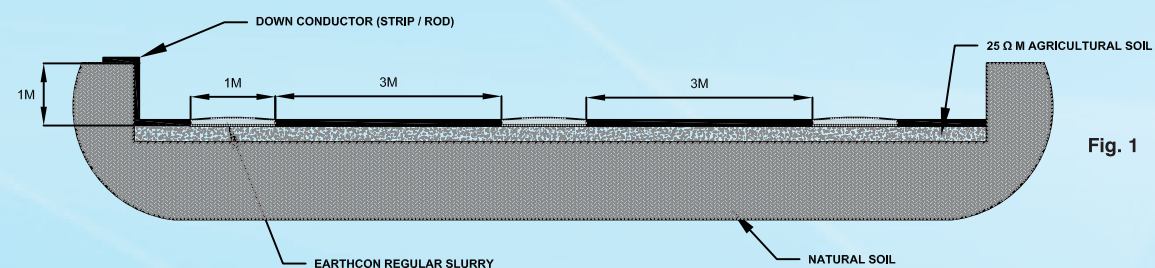
DESCRIPTION & PHYSICAL PROPERTIES

Presentation : Amorphous
 Granulometry : Powder to 0.8mm
 Color : Reddish Grey
 Smell : Inodorous
 Solubility in water : Partially miscible
 pH value : 6.9 – 7.2 of 1000gm/lit at 20°C

SETTING UP

The product must be HYDRATED before all soil operations.

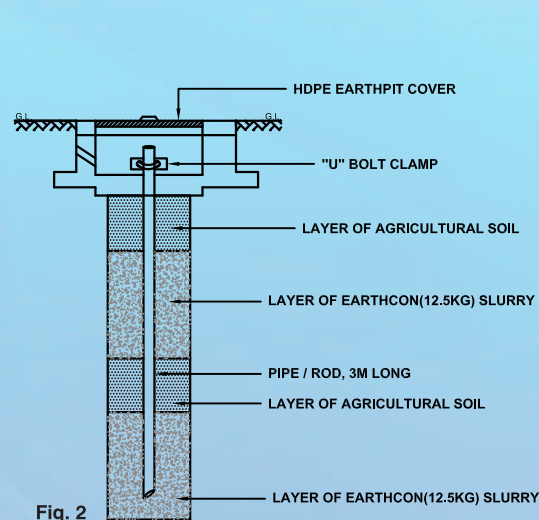
TYPICAL HORIZONTAL SETTING FOR HARD ROCK CONDITION



PROCEDURE

1. Build trench of 1m effective depth (or according to design).
2. Lay Earthing Conductor at the bottom of the trench.
3. Mix 12.5 Kg of Earthcon Regular with water in 1:1 ratio or as per design to make slurry.
4. Pour this slurry in 1m of every 4m as shown.
5. Pour 20 litres of water in Earthcon region and cover the trench using 25Ωm alluvial soil to its original height.
6. Measure the resistance. This represents optimal value.

TYPICAL VERTICAL EARTH PIT



PROCEDURE

1. Make a stable boring of 6".
2. Insert the Pipe Electrode.
3. Mix Earthcon with water in 1:1 ratio or as per design to make slurry.
4. Fill the bore with Earthcon slurry as 1st layer and next layer with agricultural soil.
5. On the top of agricultural soil, pour Earthcon slurry as 3rd layer and next with agricultural soil and compact it.

RECHARGING VERTICAL EARTH PIT

1. Excavate 0.3m x 0.3m x 0.6m surrounding the Earthpit to be recharged.
2. Mix Earthcon with water in 1:1 ratio or as per design to make slurry.
3. Fill the pit with the slurry.
4. Hammer the rod softly in the middle of the pit.
5. Add agricultural soil in the remaining bore.
6. Pour 10 litres of water after 2 hours and compact.

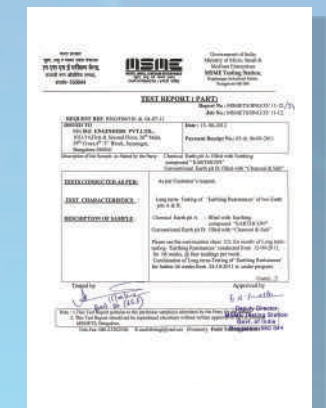
CERTIFICATES



Eco-Friendly



RoHS Compliancy



Resistance Consistency

OUR OTHER EARTHING PRODUCTS

Audit, Design, Refurbishing as per IS/BS/IEEE Standards

SAFE EARTHING KIT



KIT CONTAINS:

- Earthcon Regular 25Kg
- Copper Bonded M.S. Electrode (17mm dia, 2.0 mtr long, 250 microns, molecularly bonded)
- 'U' Bolt Clamp
- HDPE Earthpit Cover

EARTHING ACCESSORIES

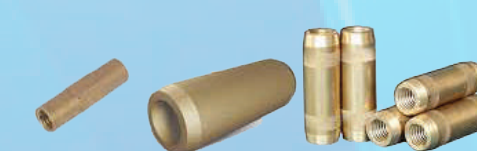
COPPER BONDED EARTHING ROD



COPPER BONDED ROD WITH FLANGE



COUPLERS



HDPE EARTH PIT COVER



COPPER ALLOY CLAMPS

