

Because electrical safety can never be compromised.



Dig into the EarthCon Regular Advantage!

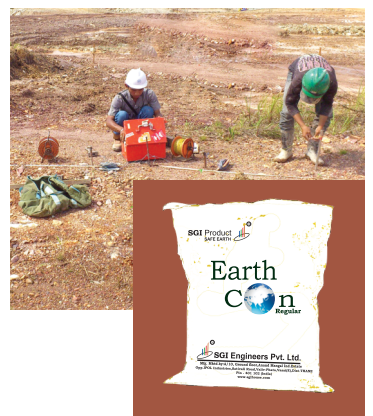
- Artificial treatment compound
- Achieves resistance acceptable to any international body
- Low Step and Touch Potential
- Environment - friendly
- Saves critical electrical and electronic equipment from grounding faults

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 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.



Safe, artificial treatment for earthing systems.

**Professional Earthing System
from SGI Engineers Pvt. Ltd.**

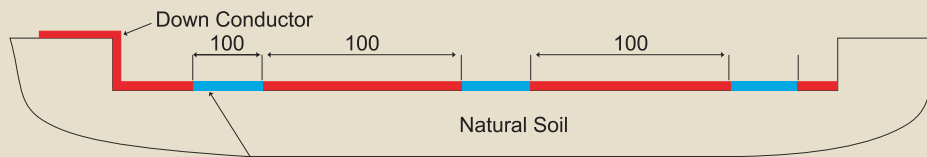
EarthCon Regular Enhancing Compound (IEEE 80 2000 Clause 14.5.b)

Ionic Chemicals	Salts creates ions for easy conduction
Dispersion Chemicals	Spreads Salts equally in the earth pit
Expansion Chemicals	Expands 18 to 20 times and removes entrapped air
Hygroscopic Chemicals	Absorbs atmospheric and surrounding moisture, retaining it in the soil

EARTHCON PHYSICAL PROPERTIES

Presentation	Amorphous
Granulometry	Powder to 0.8 mm
Colour/Smell	Natural earth / Inodorous
Solubility in water	Partially miscible
pH Value	6.9 to 7.2 of 1000 gm/lit at 20° C

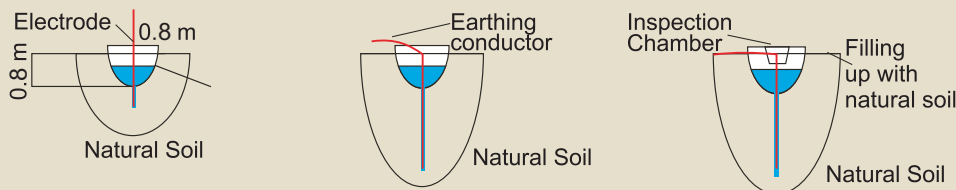
HORIZONTAL SETTING FOR HARD ROCK CONDITIONS



EarthCon Regular Slurry

- Build trench of 1m effective depth. Lay earthing conductor at the bottom of the trench
- Fill 12.5kg EarthCon Regular in 1m every 4m
- Put 40 liters of water in EarthCon Regular region and cover the trench
- Measure the resistance. This represents optimal value

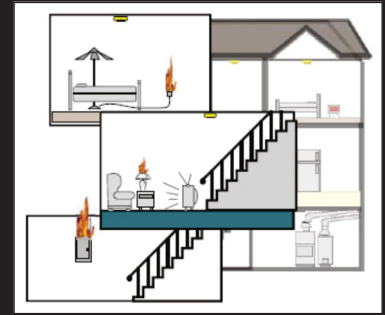
VERTICAL SETTING FOR ROD ELECTRODES



- Make a pit of 0.8m*0.8m*0.8m
- Mix 12.5kg of EarthCon Regular in 37.5 liters of water to make a slurry
- Fill the pit with slurry
- Hammer the rod softly in the middle of the pit
- Add agricultural soil in the remaining bore and compress

WE DON'T START THE FIRE!

What happens with normal earthing using salt and charcoal



Electrical drains get clogged in summer, allowing electrical energy to remain active in the circuit. This is dangerous to human life, assets and live stock.

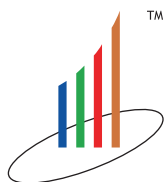


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A DUTY TO PROTECT

SGI Engineers Pvt. Ltd. has been at the helm of pushing the boundaries of earthing and lightning protection technology for over 25 years. Providing the very best in the design of these solutions, the Company is committed to managing all aspects of physical phenomena associated with lightning and electrical energy.

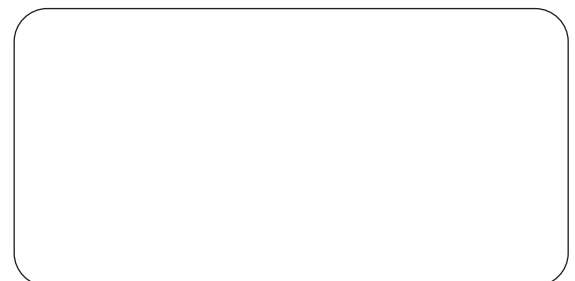
SGI Engineers partners customers and associates in its long term goals to develop and build future viable technologies.



SGI Engineers Pvt.Ltd.

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