

CUREC+™



Permanent Earth Enhancing Compound as per IEEE 80:2000 Clause 14.5(d)

We specialize in manufacturing state-of-the-art earth enhancing compounds and provide best earthing and lightning solutions. Our products strictly adhere to IEEE, NFPA, FC, IS, BS, IEC and NFC.

Curec+™ is the best permanent chemical earth enhancing compound in the world that adheres to IEEE 80:2000 clause 14.5(d). It has a shelf life up to 24 years. It is best used in high soil resistivity areas which typically varies from season to season.

Product Features

- ▶ Improves electrical conductivity of soil
- ▶ Thermally conductive
- ▶ Eco friendly
- ▶ Least corrosion
- ▶ Non leaching
- ▶ Maintenance Free up to 24 years
- ▶ Soil Resistivity value have seasonal variation of $\pm 10\%$

Physical Properties

- ▶ Available in granular form with particle size ranging from 0.85 μ m at 4mm.
- ▶ Volumetric mass
Compressed: 500 to 650 Kg/m³
Not Compressed: 600-700Kg/m³
- ▶ It is partially miscible in water.
- ▶ pH value: 6.9 - 7.2 1000g/l at 20°C

Salient Features

- ▶ **Ionic compound:** Creates ions for easy conduction.
- ▶ **Dispersion compound:** Spreads equally in the earth pit.
- ▶ **Expansion compound:** Expands 18 to 20 times and removes entrapped air to create strong connection between rod and soil.
- ▶ **Diffusion compound:** Diffuses into soil pores and creates conductive zone of earth pit.
- ▶ **Super Absorption compound:** Absorbs thousands of kilo amperes (kA).

Applications

- ▶ Electricity generation, transmission and distribution systems where safety parameters are fulfilled along with specified earthing values.
- ▶ Oil & Gas, Petroleum and Defense installations where stringent earthing specifications are mandated.
- ▶ Skyscrapers, large office complexes, multiplexes, shopping malls, etc.
- ▶ Factories having PLC based controls for critical plant and machinery.
- ▶ Hospitals, Cinema halls, museums, old monuments, schools, etc.



Product Comparison Chart

Properties	Salt + Charcoal	Bentonite / Curenite™	Curecon™	Curec+™	Curecrete™
Compound	Conventional	Economical	Mid-range	High Tech	Cement Based
Standard	IEEE 14.5(a)	IEEE 14.5(b)	IEEE 14.5(b)	IEEE 14.5(d)	IEEE 14.6
Life Span	Life span 6-8 months	Life span 1-3 years	Life span up to 8 years	Life span up to 24 years.	Life span up to 15years
Corrosion	Increases corrosion	Slow Corrosion	Slow Corrosion	Least Corrosion	Non Corrosion
Leaching	Heavy Leaching	Non Leaching	Non Leaching	Non Leaching	Non Leaching
Earthing	Temporary	Temporary	Maintenance Free for 5 - 8 years	Maintenance Free for 24 years	Maintenance Free for 8 years
Conductive	Less Conductive	Electrically Conductive	Electrically and Thermally Conductive	Electrically and Thermally Conductive	Electrically Conductive
Soil Resistivity Variation	Very high seasonal variation	High seasonal variation	Seasonal variation of ± 35%	Seasonal variation of ±10%	Seasonal variation of ±10%

Certifications



Members Of



Packaging

- ▶ Available in 3 Kg polybags
- ▶ Packaging is bio-degradable

Project Office

MANAV ENERGY PVT. LTD.

496, 3rd Floor, East End Road,
9th Block, Jayanagar,
Bangalore - 560 069
Tel: 080 26546549
Mob: +91 9611378007
E-mail: info@manavenergy.com

Manufactures At

MANAV INDUSTRIES FZE

P. O. Box: 121830, Q4-149, SAIF Zone, Sharjah, UAE
Tel: +971 6 552 6002, Fax: +971 6 552 6003

Channel Partner