

Ease of use and Mixing

Marconite® is a dark grey granular material that replaces traditional sand and aggregate materials used within concrete mixes. It should be mixed in the ratio of 3 parts of Marconite® to 1 part cement by weight and addition of 1 litre of water per 5 kg of total mix.

When mixed as described above, it forms a relatively dry material within an 'as poured' density of around 1300 Kg / m³. The water content may be adjusted as the application requires, but this will affect the concrete's compressive strength and dry times accordingly. Typically Marconite® concretes are touch dry within hours but can take several days to fully cure.

Marconite® is chemically inert with very low soluble sulphate content. It can be used with all conventional types of cement, as well as most proprietary resin-based cements, adhesives and gypsum plasters.

Marconite® is supplied throughout the world via a network of distributors and agents.



Anti-static flooring in Marconite at RRVPNL 220kVA GIS Sub-station in Jaipur (Rajasthan).

Prime Distributor in India :

INTER-TECH

B-83, Flatted Factory Complex, Near Modi Mills, Okhla,
New Delhi-110020

Tel : 91-11-26312127, 41020365
91-93137 10964, 98914 72130, 8285 691691
Fax : 91-11-26832127
E-mail : info@intertech.com.co
Website : www.intertech.com.co, www.marconite.co.uk

Channel Partners : Delhi | Jaipur | Mumbai | Chennai | Bangalore | Surat | Kanpur | Ludhiana | Shimla | Gurgaon | Raipur | Bhopal | Bahadurgarh | Noida | Bhubneshwar | Kollam

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Phoenix Works, Penistone, Sheffield, United Kingdom, Tel. +44 (0) 1226 370000



Marconite for deeper installation

Client List

- Adani Power
- BARC Mumbai
- BHEL Chennai
- Crompton Greaves Limited
- Karnataka Power Corp. Limited
- Kerala State Electricity Board
- Maharashtra Transco
- NTPC Faridabad
- New Delhi Municipal Council
- Pune Municipal Corp.
- Rajasthan Rajya Vidyut Prasaran Nigam Ltd.,
- Tata Power
- Torrent Power Limited
- Hindustan Prefab Limited
- Okaya Group
- CWE Border Roads Organisation
- Air Force - Technical Area Delhi Airport
- RR Hospital
- Appollo Hospital Limited, Delhi
- Max Hospital, Noida
- Akal Academy / University
- Ahuja Radios
- Bhushan Steels Limited Sahibabad
- Cairn India Limited
- Coca Cola
- Hero Honda
- Indian Oil Corporation Limited
- Larsen & Toubro Limited
- National Fertilizers Limited
- Prasar Bharti
- Shell Gas Hazira
- Sumul Dairy
- Vodafone

Marconite®



Where other materials fail,
earthing specialists rely upon Marconite®



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Introduction:

Marconite® is the world's premium electrically conductive aggregate material. Used as a backfill to enhance the effects of earth electrodes, Marconite® enables electrical engineers to achieve permanent, stable and low resistance earthing solutions, even in difficult ground conditions.

Specifically developed and manufactured for the needs of the earthing industry for over 40 years. Marconite® has allowed electrical engineers to tackle the toughest conditions and achieve the satisfactory earthing of installations throughout the world.



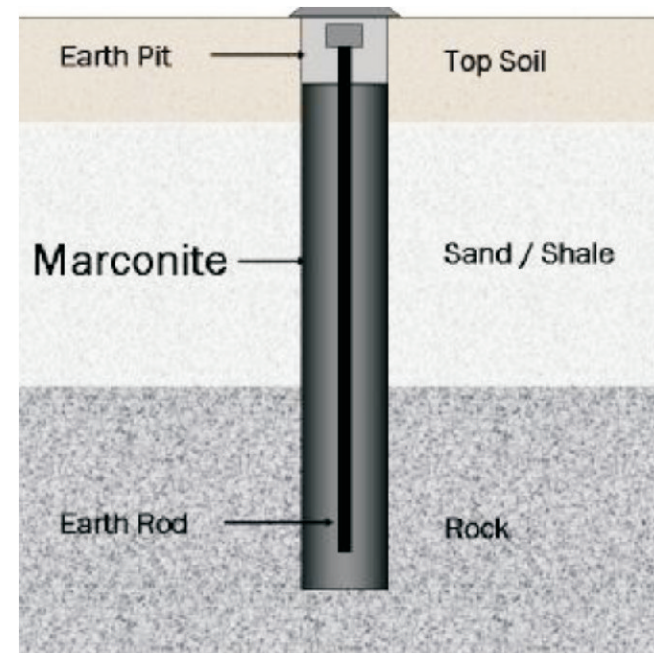
Marconite® conducts electricity much in the same way as metals, through the movement of electrons.

Traditional earthing materials such as Bentonite conduct electricity through the movement of charged ions. These ions require the presence of an effective electrolyte, such as water and the presence of salts. Unlike Marconite®, ionic based systems are subject to drying out and without water they do not conduct electricity. Marconite® does not need water to conduct electricity and does not suffer any effects from drying out.

Applications:

Marconite® has a long and proven track record and has been used within critical earthing solutions to a variety of industries including:

- Lightning conductor earthing
- Power generation and distribution
- Oil and gas production and distribution facilities
- Rail, underground and transport networks
- Telecommunications, High Speed Broadband and Media
- Utilities and Water treatment plants
- Defence facilities and equipment
- Anti-static environments



Deeper Installations Possible



Benefits:

- **Low resistivity:** 0.001 ohm-m is extremely low when compared to Bentonite's 3 ohm-m
- **Versatile:** suitable for most ground conditions and becomes a permanent, solid structure and is not prone to shrinking, drying out or being washed away
- **Cost effective:** it is a permanent solution; there is no need to remove, replace or maintain it with additional water / salts every few years in order to achieve the desired earth values.
- **Chemically inert:** is non-corrosive to steel or copper, does not attack cement structures and has a pH value within the neutral range.
- **High strength:** can be used as part of the building structure itself and can achieve strength higher than Grade 25 concrete
- **Easy to use :** forms a concrete like material from first pour, achieves a low resistance earth.

Marconite® is a carbonaceous material manufactured specifically for use in earthing applications and, unlike Bentonite, it is not a naturally occurring mineral or ore.



Its distinctive properties result from a unique manufacturing process, utilising specific raw material feedstocks, carefully selected and mixed in tightly controlled ratios before undergoing a range of manufacturing processes and thermal treatments.



Earthing electrode encased in Marconite tested at CPRI Bangalore for peak fault current upto 80kA for 1.11 seconds

The end product is a precisely measured, is virtually dust free and with exceptional electrical properties. Then it is packed in high strength, UV resistant valve topped sacks and palletised.

Marconite® is the best at what it does because it is manufactured to be that way.