

Special features of SAN-EARTH Earthing Enhancing Compound

SAN-EARTH is a non-polluting earthing product whose main components are special carbon particles and cement. Moreover, because it is a good conductor, it provides stable and permanent earthing.

Excellent earthing effects

Because of its powdery, granular composition, SAN-EARTH is easily assimilated into soil and makes contact with the ground over a large effective area. SAN-EARTH delivers an excellent earthing effect that is not possible with conventional earth enhancing materials.

Simple and economic installation

In principle, M5C does not require water when being installed. Because roots and protruding rocks do not interfere with the installation, significant labor savings can be achieved. Also, the material can be freely installed on sloped sites and is ideally suited to all manner of earthing installation.

Corrosion prevention effect

There are many different causes of soil corrosion, but earth wires set in SAN-EARTH do not suffer from corrosion, in comparison with wires simply laid in the soil.

Non-pollution

SAN - EARTH is a very stable substance that does not leach into the ground or alter due to electrolysis, thus it provides non-polluting earthing.

SAN-EARTH types and applications

SAN-EARTH is available in three types, M1C, M5C, and B5C. The main applications and methods of installation of each type are as described below.

Type	Applications	Installation methods	Amount per bag
M1C	Pasting	Mixed with water into a paste consistency, then mortared onto concrete or bedrock, etc.	25kg
M5C	Scattering	Scattered in powder form.	25kg
B5C	Boring	Mixed with water into a liquid consistency and then injected by pump.	25kg

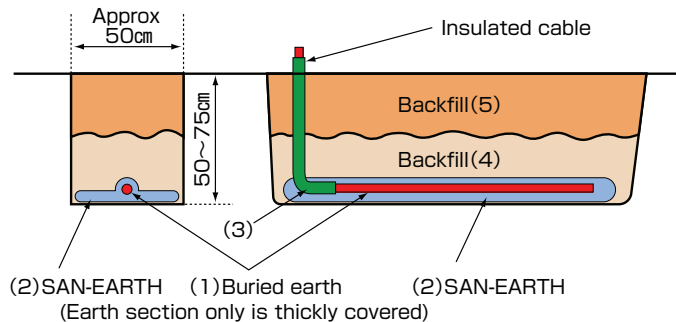
Earthing installation work using SAN-EARTH

SAN-EARTH (M5C) strip installation work

SAN-EARTH (M5C) absorbs the moisture in the surrounding soil and hardens naturally, making it ideal for installation in locations where it would be difficult to transport water.

Examples of how SAN-EARTH (M5C) is used in construction work are shown below.

Basic construction method



- (1) Lay earth wires.
- (2) Scatter SAN-EARTH so that the earth wires are completely covered.
(Thickly around the earth wires, thinly at other locations)
- (3) About 30cm of the covered part of the rising section of the earth wire is also embedded in SAN-EARTH.
- (4) Carefully backfill with soil to a depth of around 10cm and tread down to compact it.
- (5) Completely backfill with soil.

Note: If the earth wires are not completely covered with SAN-EARTH, they may corrode due to electropotential difference and the effect of electrolytic corrosion prevention will be lost.

Example of laying SAN-EARTH M5C

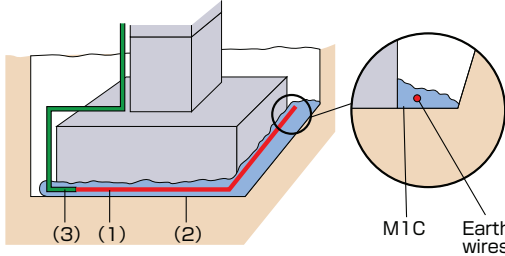


Laying SAN-EARTH M5C *One 25kg bag of M5C will cover approx. 3 meters (width 50cm) .

SAN-EARTH (M1C) conductive concrete installation work

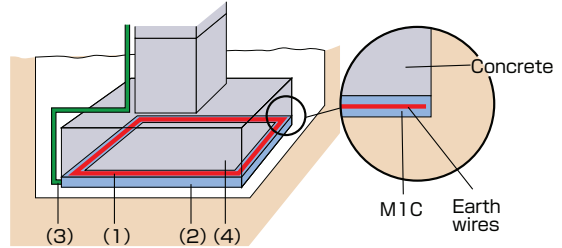
This is a simple installation method where the earth wires are laid in a trench around the outside of the foundations of a building or structure, and SAN-EARTH conductive concrete is installed so that the wires are covered. The basic installation method of SAN-EARTH M1C is shown in the illustrations below.

Basic construction method 1



- (1) Earth wires are laid in a trench around the outside of the foundations.
- (2) SAN-EARTH conductive concrete is installed so that the wires are completely covered. SAN-EARTH M1C (25kg) is blended with approx. 7 liters of water.
- (3) About 30cm of the covered part of the rising section of the earth wire is also embedded in the conductive concrete.

Basic construction method 2



- (1) The earth wire is laid inside the foundations.
- (2) SAN-EARTH conductive concrete is installed so that the wires are completely covered. SAN-EARTH M1C (25kg) is blended with approx. 7 liters of water.
- (3) About 30cm of the covered part of the rising section of the earth wire is also embedded in the conductive concrete.
- (4) When the SAN-EARTH mortar is dry, the next step of the process is to lay the foundation concrete.

Example of laying SAN-EARTH conductive concrete M1C

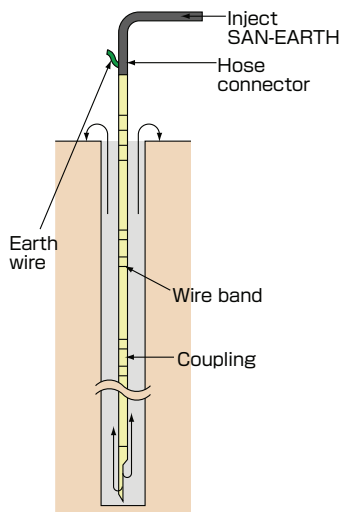


Laying SAN-EARTH M1C *One 25kg bag of M1C will cover approx. 3 meters (width 30cm)

Deep-buried earthing method (boring method)

For locations where it is difficult to secure ground for earthing, such as power generation stations or substations, etc., the deep-buried earthing method (boring method), which uses the deep underground, is very effective. In the deep-buried earthing method, boring machines drill holes between 5 to 15cm diameter into the ground and electrodes are inserted into the holes. Compared with other installation methods, this method is able to achieve excellent earth resistance with relatively little work.

In Sankosha's Deep-buried earthing method there are the SAN-EARTH method and the SAN-FLEX method, depending on the earth electrode that is put in the ground.



SAN-EARTH deep-buried earthing

