

Compound for improving ground electrodes

SETACSOL



General description

- The safety of electrical installations and the people that use them depends to a great extent on the ground connections of the installations.
- The conductivity of the ground depends on the type of terrain.
- In general, on all types of terrain it is recommendable to use compounds that improve resistivity.
- For ground electrodes to fulfil their purpose, they need to have low resistance and an equally low potential gradient in their environment.
- There are various procedures for improving resistivity, although some are difficult to perform (increasing the depth of the electrodes), others are excessively expensive (increasing the no. of electrodes), while others require considerable maintenance (mixing salt).
- SETACSOL compounds – Ch. Ledoux process – are easy to use, economic, and they guarantee low resistivity and effective treatment for 10 years without any type of maintenance.



SETACSOL compounds are supplied in plastic bags of 50 kg.

What is SETACSOL?

It is a registered compound that is rich in ionizable alkaline earth electrolytes, appropriately treated and stabilized. It is very slightly soluble, but its diluted solutions are highly conductive. It does not have a pollutant or aggressive effect on the terrain where it is applied.

Due to its low solubility, it penetrates the terrain little by little, which guarantees its permanence. There is a compound suited to each type of terrain, as described in the table below:

Type of compound	Application
A 62 SA	Sandy terrains, of medium or high porosity, where the soil is lean and lacking in limestone, such as rocky, granitic, decomposed sandstone terrains, and river basins.
B 80 ARF	Clayey or silica clay terrains, almost devoid of lime: miocenic clays, shallow decomposed granites rich in clay, marshy terrain, etc.
C 85 ARC	Clayey terrains rich in lime: calcium-deficient clays on a calcareous base, such as terrain in the Cantabrian basin and the Pyrenean foothills.
D 55 CA	Eroded terrains or those simply covered by a thin layer of arable land, mixed with fragments of the underlying rock.
E 92 GR	For filling in cracks in terrains characterised by cavities, sand, pebbles or sand lacking fine or clay elements, in order to ensure good contact between the ground connection electrodes and the ground. This composition is only used close to the electrodes, in order to make the terrain more compact and thereby lower the contact resistance.

How is SETACSOL used?

It is very simple to use. Its use varies depending on whether the ground electrode is an existing one or a new one, and according to the type of ground electrodes. There are different procedures depending on whether a plate, conductor or rod is used for connection.

The quantity of SETACSOL to be applied varies as follows: 100 or 125 kg for a plate, 15 or 20 kg per linear metre of conductor, and 110 or 130 kg for a rod. Please ask for the instructions for use leaflet.