

# TECHNICAL SHEET

## TRITROLLITO Additive

It is an effective alternative in the treatment of artificial resistivity of land, which reduces and maintains, in time, the resistance of the earthing.



### ADVANTAGES OF USING ADDITIVE TRITROLLITO

- Allows you to reduce and maintain, over time, effectively resistances of the grounding.
- Non-corrosive; is worn monthly gram material, approximately, with and without passage of current in the ground, allowing electrode life for 30 years or so.
- It is recommended for use in solidly neutral lands or lands of service.
- In electrodes protection without current flow in the ground, maintains the properties for longer times a year, without adding water, in extremely dry climates.
- The additive has 20% less resistance grounding for lightning impulse, for resistance grounding with industrial frequency 50 Hz.

<b>pH</b>	<b>RESISTIVITY (<math>\Omega - m</math>)</b>	<b>DOSE METER PERFORMANCE LINEAR ELECTRODE</b>	<b>RESISTIVITY OF LAND (<math>\Omega - m</math>)</b>	<b>STRENGTH REDUCTION FACTOR, FR</b>
<b>9 Aprox.</b>	<b>0.05 Aprox.</b>	<b>0.5 Bag</b>	<b>100 ÷ 1,000</b>	<b>10</b>
		<b>1.0 Bag</b>	<b>1,001 ÷ 3,000</b>	<b>11 ÷ 25</b>
		<b>2.0 Bag</b>	<b>3,001 ÷ 5,000</b>	<b>26 ÷ 35</b>
		<b>3 Bag</b>	<b>&gt; 5,001</b>	<b>36 ÷ 45</b>

### INDUSTRIAL PATENT

Note that we have the license to produce the original product created by Engineer Dr. Hugo Martinez Darlington, which has its respective industry patent, registered in INAPI No. 42660.

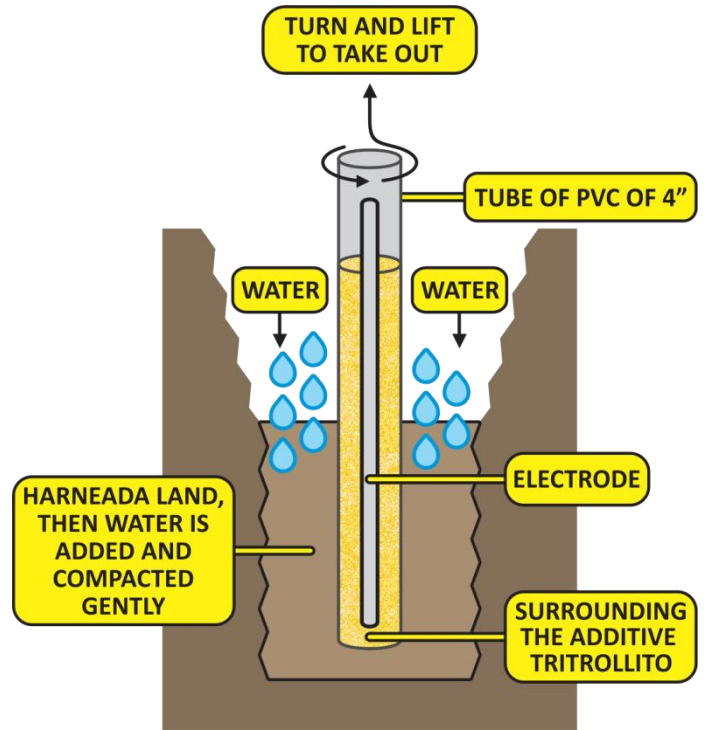
### SERVICES

In addition, our commitment to partnership with Dr. Martinez, is offering a comprehensive service, putting at your disposal related services as:

- a) Measurements to determine resistivity of land.
- b) Grid Designs ground.
- c) Diagnosis of grounding grids.
- d) Related services.

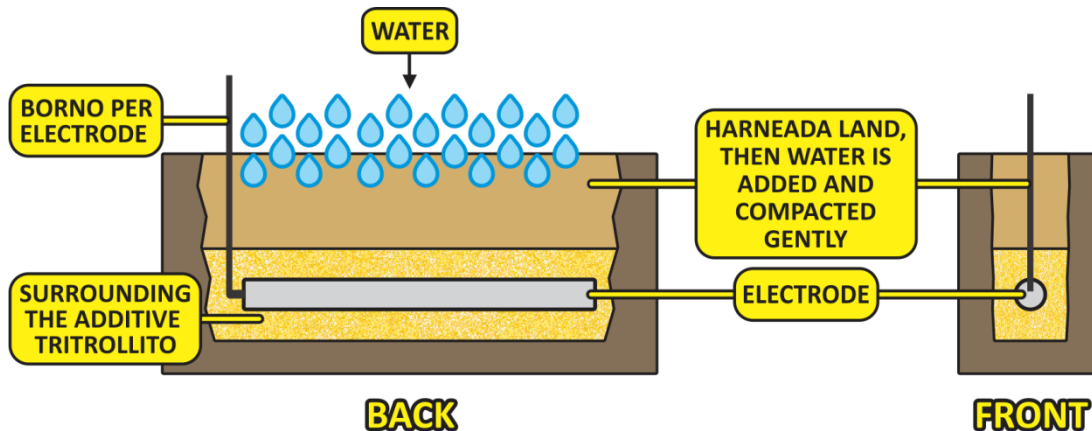
## INSTALLATION OF ELECTRODE VERTICAL

1. Make a cylinder bore according to the length of the grounding bar mounted.
2. Put plenty of water in the bottom of the excavation. Approximately 30 liters.
3. It is located in the center of the excavation, a PVC tube about 4 inches in diameter.
4. To affirm the PVC pipe in the first instance, the land taken from the excavation is placed, but harneada, free of rocks and objects. As the earth is poured around, add water and gently compacted.
5. TRITROLLITO additive is prepared by mixing water at a ratio of 14 kilos per 7 liters; until it becomes a kind of mortar construction. The mixture may be prepared in a mixer construction.
6. Then 6. is added within the PVC tube, the TRITROLLITO additive, then sticking the center of the PVC pipe, the earthing bar. Once covered 1/4 of the tube into additive and abroad with soil, proceed to lift and turn the PVC pipe. This operation is successively executed, until completing the length of the electrode.
7. Complete the filler surface with the same land, free of rocks and other materials when adding water and gently compacted.



**EXCAVATION SCHEME**

## INSTALLATION OF ELECTRODE HORIZONTAL



1. Conduct a trench, whose depth depends on the design of the grid to ground, or preliminary study of the resistivity of land, usually no more than 80 inches. The length of the trench depends on the length of the electrode. Then add water to the bottom of the trench.
2. Prepare TRITROLLITO additive mixture with water at a rate of 5 liters per 14 kilos of additive. Mortar to obtain a construction type, more or less dense.
3. Apply a layer (bed) of about 10 cm thick additive prepared as indicated in paragraph 2. At the bottom of the trench.
4. Place the electrode on the bed of additive, so keep a distance of 10 cm from the bottom.
5. Add remaining additive prepared, so that it surrounds the electrode. The blending amount of TRITROLLITO, dose dependent bags or 14 kilos, which is recommended in Table 1, according to the reduction factor of the resistance grounding Fral end, you should fill the trench with excavated earth itself, being this harneada, free of rocks and items. The filling procedure should be performed as follows: Fill each 20 cm, adding 20 liters of water per meter of electrode, then top up with harneada 20 cm soil and add water again until reaching the surface.
6. After completing the filling, gently compact the soil, to avoid dispersion of the additive in the electrode.