

AFK0040AT DATA SHEET

1. 1. I Product and company identification

Product name : AFK0040AT **GROUNDING IMPROVING MATERIAL**

Use : To prepare ionic enhancement treatment for soil, to improve earthing.

Presentation : Bag of 15 kg

Code : AFK0040AT

Manufacturer : FRANKLIN FRANCE

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Internet Website : www.franklin-france.com

1. 2. Description and physical properties

Preparation based on silicates and chlorides

Presentation : Solid in granules

Granulometry : 0.85 micro.m at 4 mm

Colour:Grey

Smell:Inodorous

Apparent volumic mass:

- Compressed : 500 to 650 Kg/m³

- Not compressed : 450 to 500 Kg/m³

Solubility in/miscibility with water : partly miscible

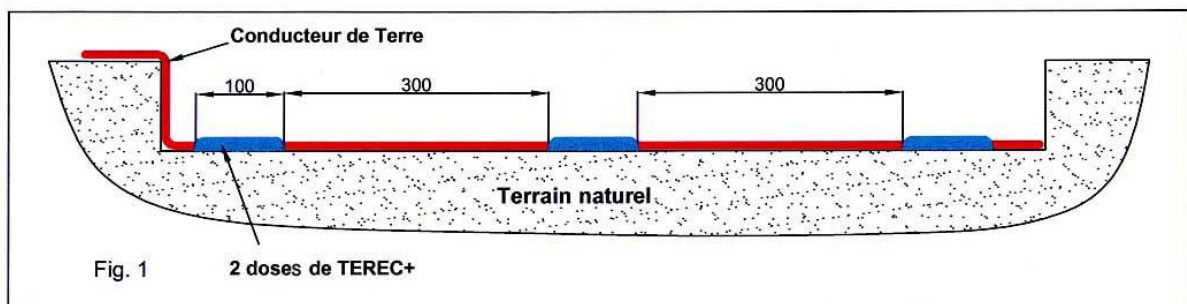
pH value : 6.9 . 7.2 1000g/l at 20°C

1. 3. Setting up

The product must be hydrated before use, fill the container with 10 liters water before all soil operations.

3.1 Horizontal setting up:

- a. Build the trench(es) of 1 m effective depth.
- b. Lay the earthing conductor in the trench bottom
- c. Build with the hydrated product a 1 m cord on the electrode (2 doses of 10 Kg) and if this one is longer than 5 m, treat on 1 m each 3 m (Fig. 1)

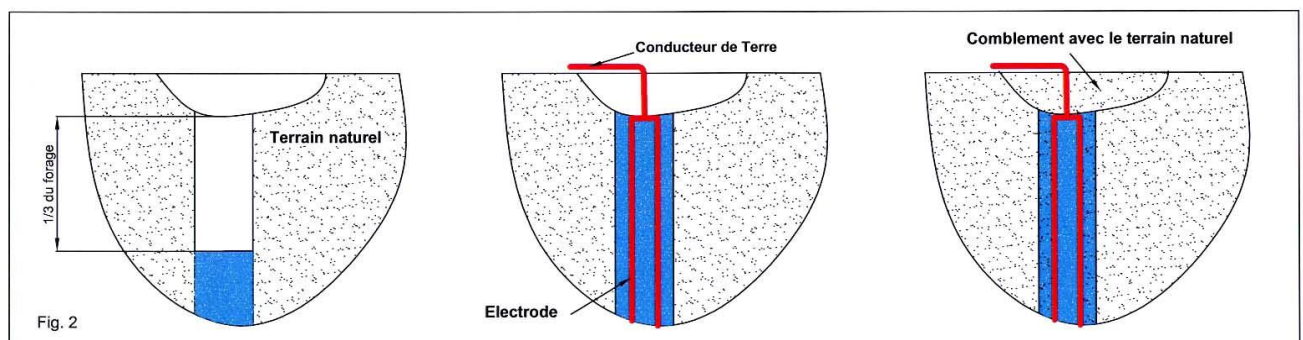


- d. Fill up the trench(es) on a 0.20 m height, water the treated portions with 20 liters water, compress then block up the remaining height compressing again in order to build again the soil apparent volumic mass.
- e. Measure the resistance: this one represents only 70% of the optimal value, which is obtained within a period of 2 months.

3.2 Vertical setting up with tubular electrode:

Important: the boring must be stable and without any water entry.

- Fill the drilling until one third of its height, introduce the electrode then fill it inside until the top (fig. 2)
- Shake the electrode in order to let go up all air-pockets, and fill the empty part, if necessary.
- Wait 1 hour, fill again if necessary, and measure the treated soil resistance. As for the horizontal set up, the value will represent only 70% of its optimal value, which is obtained within a period of 2 months.



3.3 Vertical setting with copper/steel rod :

- Make a 0.8m x 0.8m x 0.8m hole (scheme 3)
- Put 10 Kgs of watered TEREK+
- Put the first earthing rod in the hole middle and drive it in. Add the additional rods up to the forecasted depth. Water with 20 l. water.
- Fill the ground until 0.4 m of the surface, and compact the earth in order to rebuild the apparent volumic mass of the ground.
- Install the inspection pit and measure the treated earth resistance. As above, the value will only represent 70% of the optimal value, which will be reached within 2 months.

