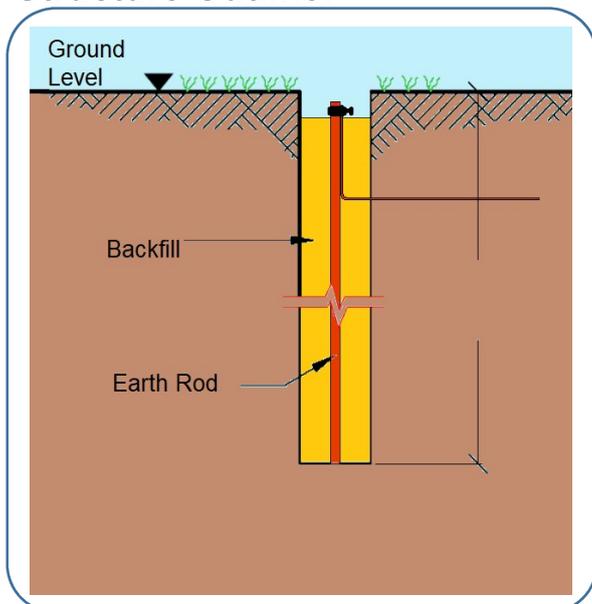


Application:

BS 7430 Clause 7.5: Soil treatment or replacement to improve earth electrode contact resistance may be used in special or difficult locations. Ecological considerations should be considered before such treatment is commenced and any deleterious effect upon electrode material has to be taken into account. Such treatment may be used to advantage in rocky terrain. Where holes are bored for insertion of vertical earth electrodes, or where strip earth electrodes are laid radially under shallow areas having a low resistivity which overlay rock strata, suitable treatment will reduce the contact resistance with respect to the general mass of the ground. The use of coke breeze as an infill is not recommended as it may result in rapid corrosion not only of the electrode itself but also of cable sheaths.



Structure Outline:



Specification:

To improve the conductivity of a Earthing system, PETUNIA recommends using Ground Improvement Material (PetInfill). PetInfill is a low-resistance ,non corrosive, that improves Earthing effectiveness ,especially in areas of poor conductivity, PetInfill contains cement, which hardness when set to provide a permanent, maintenance free ,low resistant Earthing system that never leaches or washes away.

Reference Code	Compound	Box	Weight Kg
PetInfill30	PetInfill Powder	1	30.0
BNTG 30	Bentonite Granular	1	30.0
BNTP 30	Bentonite Powder	1	30.0

Bentonite can be supplied in powder or granular form and is a moisture retaining clay which is used to reduce soil resistivity.

Granular is easier to handle in granular form, the powder can cause dust in windy conditions and blow away, granular is the preferred option for filling trenches where the conductor is covered with Bentonite and then water poured over and mixed in the trench

Powder is the preferred method for pouring into bore holes to ensure the mixture is a thin enough consistency to reach the bottom of the bore hole, if diamond drilling is required for deep holes possibly 40mtrs and deeper and the Bentonite is to be pumped through the core into the hole powder would be the preferred option.

Titel:	Document No.:					
Improvement Compound (PetInfill)	Rev.:	0	Issued For Approval	97/10/20	K. J.	M.R.Hedayati
	Page:	1/2	Description	Date	Prepared	Checked
						Approved