

## **Lectro-lyte™** Conductive Grout for use with *Lectros* Anodes

### Special Properties

- Pre-mixed grout based on natural (hydraulic) lime putty
- Easy filling of anode holes at 18 mm diameter
- Guaranteed conductivity
- Permanent installation
- Compatible with Historic Building masonry.

### Description:

Lectrolyte Grout is a lime-based grout produced for the installation of the *Lectros* Electro-osmotic DPC system anodes. It contains flow modifiers and conductivity promoters.

Supplied pre-mixed for use with the Lectros Mortar Grout Gun. The flow properties enable easy grouting of standard holes, 18mm x 225 mm deep, as required in 600mm thick walls.

Thicker walls that require 'Long' anodes can also be grouted. Holes up to 600mm deep are possible using 14 – 18 mm drill bits which enables walls of 1.0 m thickness to be damp-proofed from one side. Even thicker walls will require 'Special' anodes and larger drill bits (18 – 20 mm). In both cases the grout gun will require extension nozzles to deliver the grout to the back of the drill hole.

The grout is thixotropic and will not drain away into voids in the masonry or run back out of horizontal holes. An initial set will occur over several minutes followed by the longer-term slower curing action. The grout will not shrink during the curing period. The additional use of a mechanical plug to speed up installation and prevent disturbance post-installation is recommended.

### Equipment required:

Lectros Mortar Grouting Gun as supplied with a stainless steel 300 x 12mm grout nozzle. Longer nozzles are available to special order.

### Preparation Work:

Follow the installation procedure for Lectros Electro Osmotic DPC to decide upon the best circuit layout and appropriate anode installation depth.

Drill a 18mm hole to the recommended depth to take the Lectros anode. Blow the hole clear of dust and carry out a trial fit of the pre-formed anode. Insert the grout gun nozzle to the full depth and fill with Lectrolyte grout, withdrawing the nozzle as you fill the hole. Stop filling approximately 10mm short of the face of the wall. Insert the pre-formed Lectros anode to its full depth ensuring the grout has fully encapsulated the wire. Finally, fix the anode in place with a mechanical fixing plug (Wykamol **SuperPlugs** are suitable).

Move to the position of next anode, pre-form the anode and mark its position on the wall. Drill the required hole and repeat the installation procedure.

## Product data:

### Consumption:

The Grout requirement for 18mm drill holes and walls up to 600mm thick is shown in the Table below. In thicker walls it is advisable to increase the drill size to 18mm or 20 mm. This will increase grout usage x 1.31 or 1.65 respectively (plus a factor for the extra depth of anode hole required).

Wall thickness (mm)	Anode Depth (mm)	Hole Depth (mm)	Grout per Hole (ml)*	Holes per 5 kg bucket*
225	125	150	22	170
450	150	175	26	145
600	200	225	34	110

\* These figures are approximate and do not take account of potential wastage. Also, when treating any structure with significant voids, higher consumption figures should be expected

### Curing time

The grout has an initial set of 5-10 minutes; the final cure takes 7-28 days.

### Cleaning

The grout can be cleaned from masonry with water provided that it has not set. If it has set then (after removing any surface residues by e.g. chisel) a proprietary mortar cleaning solution will be required.

The mortar grout gun is constructed in non-corrosive plastic and stainless steel. Wash the gun clean with water after use. If in daily use then cleaning may be reduced to say once per week as the grout will not set inside the gun but will slowly set in the nozzle.

### Storage:

Store in a cool, dry place (NB do not allow to freeze)

Shelf life: 6 months from date of manufacture

Pack size: 5 kg plastic bucket

### Safety:

Lectrolyte Grout is classified as 'Irritant' and should be handled with care to avoid skin and/or eye contact. For full information please consult our Material Safety Data Sheet available on request.

## Technical Information:

This data sheet is intended for use by professional contractors familiar with the **Lectros** DPC system. If you require any further advice regarding this product or any other aspect of the Lectros system please contact our Technical department.

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