

TECHNICAL DATA SHEET

LIGHTNING PROTECTION INTERNATIONAL PTY LTD

Comprehensive Lightning and Surge Protection

ABN 11 099 190 897

- Direct Strike Protection
- Earthing Products & Solutions
- Surge & Transient Protection for Power, Data, Communications and RF Lines



LPI® Resistance Lowering Compound (RESLO)

Features

- Effective in all soil conditions
- No maintenance required
- Independently tested by an Australian University

Product Description



Ordering Code	RESLO-10
Description:	Resistance Lowering Compound
Application:	To lower the DC ground resistance and impedance
Weight:	10kg

The requirement for a low resistance is extremely important with the installation of any earthing system. LPI's RESLO provides the ability to dramatically reduce soil resistivity even in soils with average electrical conductivity.

RESLO comprises specifically selected compounds, which possess excellent electrical conductivity. When RESLO is mixed with water and poured around the earthing system and surrounding soil the powder and water react to form a hardened mass within an earthing system. RESLO will not wash away under seasonal conditions and therefore provides a permanent presence in working to improve and maintain the integrity of an earthing system. Given that RESLO does not wash away the requirement to re-treat the soil as is the case with other enhancing compounds is eliminated.

RESLO is supplied in multiples of 10kg-packaged bags to suit the site application. These packaged bags have full installation and handling instructions and combine a plastic handle and HDPE plastic liner for ease and safety of handling.

Product Application

Given that all earthing systems are installed in varying soil types and conditions, it will be appreciated that the application results of RESLO will also be dependant on these site-specific conditions. For a typical trench installation, one 10 Kg kit of RESLO will achieve the desired earth resistance levels in combination with appropriate conductors for a trench covering 2.5m in length x 300mm in width and a depth of 500mm to 1000mm.

All earthing systems are typically required to achieve a Ground DC Resistance of < 10 Ohms and impedance of < 30 Ohms as outlined in most standards.

If installing either a radial earthing system or grid type earthing system it is recommended that all earthing conductors be installed at a depth of between 500mm and 750mm (recommended) with a maximum depth of 1000mm. In order to further assist in improving the earth resistance of the system, it is recommended that excavated soil of poor quality (Rocky) be replaced with soil of a good quality (Garden Loam) prior to backfilling the trench.

RECOMMENDED BAGS OF RESLO-10 REQUIRED FOR BACKFILLING TYPICAL TRENCH INSTALLATIONS

Width of Trench (mm)	Length of Trench 2.5m	Length of Trench 5m
300 mm	1	2

For trench dimensions outside of the given specifications please contact LPI or an authorized distributor for further advice.

RECOMMENDED BAGS OF RESLO-10 REQUIRED FOR BACKFILLING GROUND ROD INSTALLATION

Dia. of Hole (mm)	Depth of Hole (mm) 1800mm	Depth of Hole (mm) 2400mm	Depth of Hole (mm) 3000mm
75mm	1	1	1
125mm	2	2	3
175mm	3	4	5

For augured hole dimensions outside of the given specifications please contact LPI or an authorised distributor for further advice.



LPI[®] LIGHTNING PROTECTION INTERNATIONAL PTY LTD
ABN 11 099 190 897

PO Box 379 Kingston, Tasmania, Australia 7051

49 Patriarch Drive, Huntingfield, Tasmania, Australia 7055

■ Phone: +61 3 6227 1955

■ Fax: +61 3 6229 1900

■ Email: info@lpi.com.au

■ Web: www.lpi.com.au