

LPI EARTH ENHANCING COMPOUNDS

Due to varying soil conditions from one site to the next, the installation of earth electrodes alone can often fall short of achieving a low resistance earthing system.

The application of LPI’s permanent earth enhancing compounds around earthing electrodes has a significant impact on achieving the low resistance required for an effective earthing system. They achieve this goal without the expansion and shrinking characteristics of some cheap alternatives that can effectively render the earthing system useless.

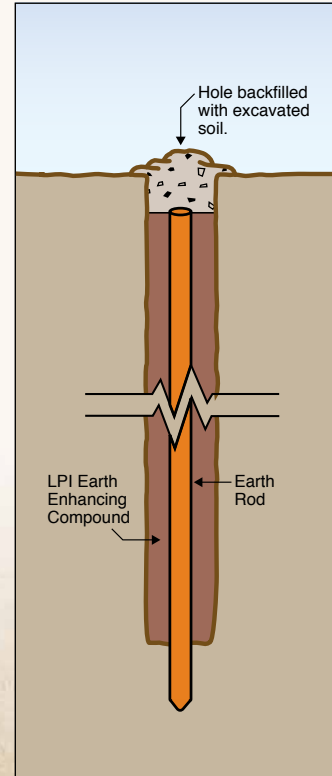
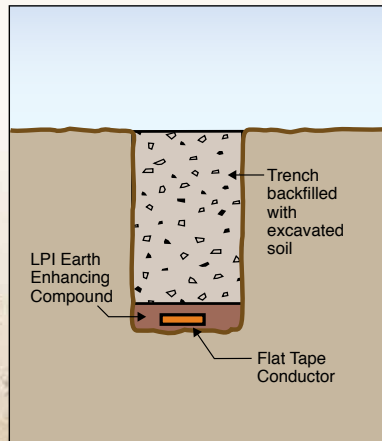


Characteristic	RESLO	SRIM	Comment
Base materials	Bentonite, gypsum	Calcined petroleum coke [CPC], cement	RESLO – naturally-occurring, mined SRIM – from crude oil refinery
Packaging	Laminated, woven polypropylene bag	Laminated, woven polypropylene bag	Environmentally friendly, recyclable packaging [size: 420 x 695 mm]
Shelf Life [years]	> 1	> 1	Shelf life is longer than 1 year if kept in a suitable environment
Bag Size [kg]	20	20	
Resistivity [Ω m]	~ 0.53	~ 0.15	SRIM is 3-4 times more conductive than RESLO due to its carbon content
Typical Resistance Reduction [%]	> 50%	> 50%	Temporal / seasonal variability is also greatly decreased by both EECs
Typical Amount Required [bags]	5 x 0.3 m trench: 2 0.125 x 1 m hole: 1	5 x 0.3 m trench: 2 0.125 x 1 m hole: 1	
Leaching	Negligible [but not for use where water table is present]	Negligible, product sets like concrete [non-structural]	Leaching is well below EN limits or is undetectable
Sulphur Content	> 2% [naturally-occurring]	<< 2%	All clays have natural sulphur, which is generally benign.
Corrosion Performance	Greatly exceeds IEC 62561-7 requirements	Exceeds IEC 62561-7 requirements	SRIM is specially formulated to be non-corrosive despite large carbon content
Hardening	Semi-hardens, over about 0.5 - 3 days	Fully hardens, 1-3 days	Hardening / curing of each EEC depends on many factors, e.g., surrounding moisture, temperature, etc.
Maintenance Required	Nil, provided installed according to instructions	Nil. Permanent encasement of earth electrodes	No additional material is needed beyond the initial installation
Service Life [years]	> 15	> 20	Long-lasting enhancement if installed per LPI instructions
Standards Compliance	AS 2239 IEC 62561-7 [most]	IEC 62561-7	RESLO is only “non-compliant” with regard to sulphur content

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RESLO and SRIM are very effective earth enhancing compounds that meet the necessary criteria across all industries.

Both products meet or exceed the requirements of international standards and their performance meets or exceeds other earth enhancing compounds on the market.



STANDARDS COMPLIANCE: AS 2239

STANDARDS COMPLIANCE: IEC 62561-7