



ECOBOND

UNDERGROUND ASSET PROTECTION

Environmental impact assessment compliant.
INTERNATIONALLY CERTIFIED
Agreement SA at CSIR, COTO, SADCC, and SANRAL.

OUR PROVEN PERFORMANCE SETS US APART

Achieve peace of mind with a superior product.

Avoid underground cable and pipe theft.

SARPA approved use for the following:

- Copper cable theft and prevention from damage.
- Cable protection from the elements and damage.
- Fiber cable theft and prevention from damage.
- Aluminum cable theft and damage.
- Gas Pipe Line Protection and prevention from damage.
- Water pipe Line Protection and prevention from damage

Presented By: L.Noach

Manufactured In South Africa
Distributed by Muchakachi Construction (Pvt) Ltd Zimbabwe
ECOBOND IS NOT TO BE MISTAKEN FOR SIMILARLY NAMED

AGRÉMENT
SOUTH AFRICA
Innovative construction product assessment

CSIR

Ecobond
Reinforced
Bitumen

INTRODUCTION

ECOBOND is an effective solution to prevent underground cable and pipe theft, specifically in the Mining, Communications, Farming and Railway industries.

Ecobond has been approved for use by Eskom South Africa, after successful Proof of Concept sites installed more than 3 years ago with no theft of cables to date.

It has now been specified as a line item in some tenders in Gauteng Province, North West Province and Northern Cape Province.

Ecobond use has been approved by SARPA. (South African Revenue Protection Association)

(Installation must be done by a team of trained and approved installers. (All installer teams in South Africa must undergo SITA approved training before being deployed and must be under the supervision of a Project Manager to ensure compliance and quality)



Ecobond is the only product that has achieved an Agrément Certificate (2015/496) for the use of an additive in soils as stabilizer to harden most materials. It is the only product to provide a wet-strength as it is insoluble in water after curing. Due to its ability to harden most kinds of soils its performance remains consistent and is enhanced in sandy soils. It is important to note that the thermal properties of the substrate will remain consistent under most climatic conditions.

- A Synthetic Resin Hydrocarbon Ground Glue Binder. (Soil stabilizer)
- Manufactured under license in South Africa - internationally patented.
- Ecobond is environmentally friendly, with a 4 to 8 hour initial curing period with total curing under 24 hours
- Ecobond is used for the purposes of creating solid bonded soil and gravel.
- Constituted on site through a chemical reaction by mixing bitumen emulsion, patented synthetic resin, water and a proprietary catalyst.
- The mixture is added to natural gravels or in-situ material to form a water resistant, elastic and robust layer.
- Ecobond will improve the compressive, tensile and shear strength of the soil, including abrasion and water resistance.
- The product is insoluble in water and will not leach.
- The mixing ratios and application rate (mix design) depend on the site-specific material.
- Ecobond will not harm the insulation around any cables.
- Ecobond has a Thermal Resistivity rating that is safe and will not damage cables up to and including 132Kva.
- Encases HV, MV and LV cables and selected accessories to prevent theft
- Does not affect thermal resistivity of surrounding soil
- Does not affect heat dissipation from cable
- Simple means to remove encasement for maintenance purposes
- Most effective if entire cable length encased
- On removal soil remains workable and can be reused.



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