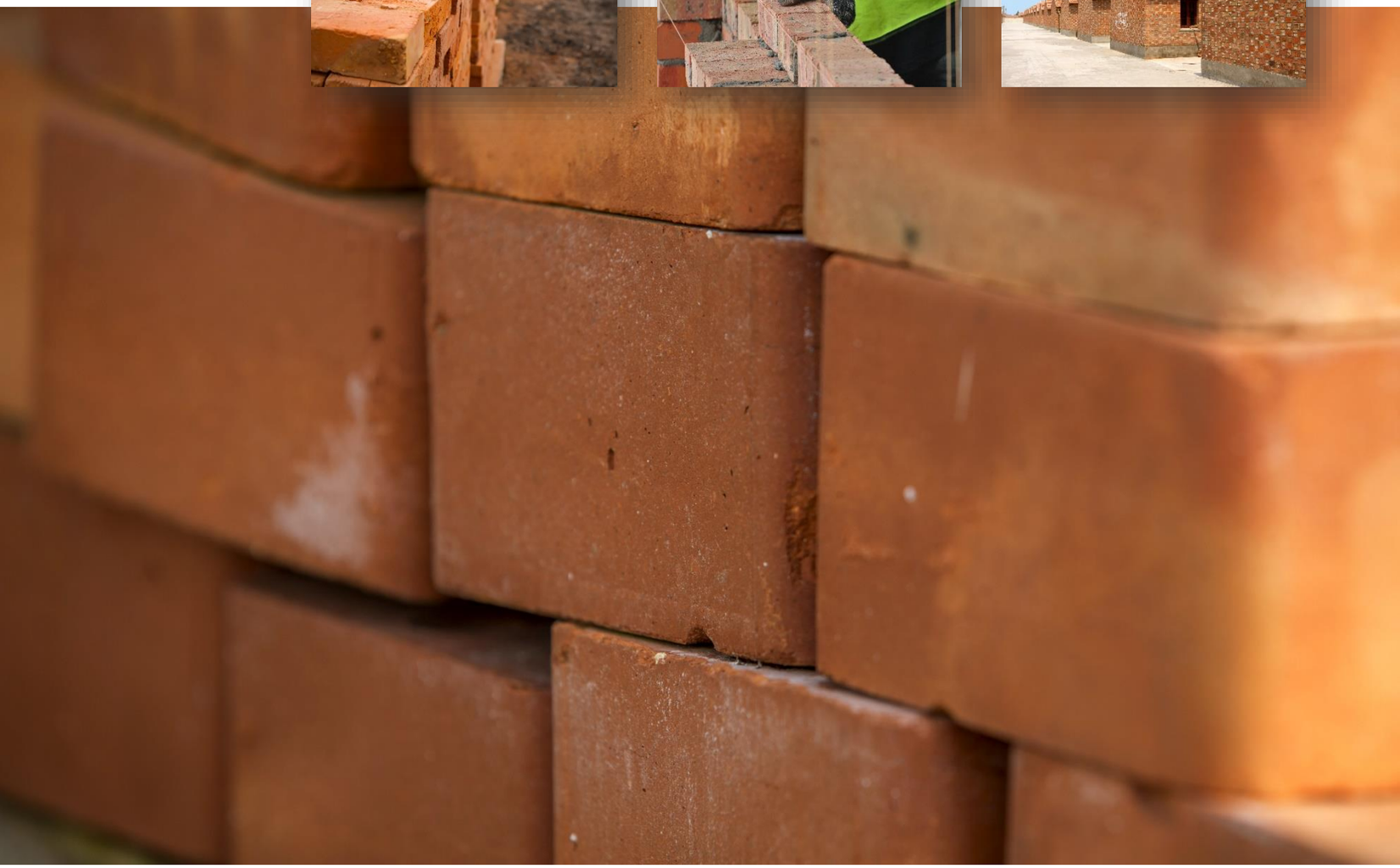
ECOBRICX®

Innovative solution for stabilized earth blocks



- Eliminate the need for kiln firing
- Reduce the need for cement
- Reduce the carbon “footprint” of brick production
- Required minimum training and minimum equipment
- Save up to 60% of production cost
- Make low-income housing affordable

Why ECOBRICX®?

ECOBRICX® is innovative biomass-based soil additive that increases the strength, density, and durability of a soil composition. ECOBRICX liquid formula hardens a local soil, create a soil bricks with comparable strength and substantial economic benefits, eliminates use of kiln fire and reduce use of cement .

The ECOBRICX Difference

■ **ECOBRICX Is Cost-Effective**

By eliminating the need for imported cement/lime materials, ECOBRICX saves 40% – 60% of the bricks production cost. ECOBRICX can solidify and stabilize soils in situations where other materials would be cost prohibitive.

■ **The Economically Sound Solution**

The benefits of using ECOBRICX are numerous. Along with reduced production casts, transportation costs are also significantly reduced as production happens of site, using local materials and only semi-skilled labor is required. Also, production set-up is flexible, meaning that after fixed cost, the marginal costs are minimal and production can be scaled as needed with minimal economic risk.

■ **Improves Working Conditions**

ECOBICX technology required only ready available block making machines, does not require extra safety equipment or training. And with the technology being readily transferable, efficient training can quickly develop a dependable employee base composed of local labor.

■ **ECOBRICX Uses Local Soil**

If at least 15% cohesive fines (silts and clays) are present, ECOBRICX can be mixed directly with the soil to produce a strong, virtually impervious to water penetration bricks. If importing material is required, a less expensive, non-graded mineral additives can be added.

■ **Resources Management**

Use of ECOBRICX does not required kiln firing, SEB production helps manage natural resources by limiting the need for firewood, coal, and oil. And, soil quarries can be reutilized to harvest water or for community landscaping.

ECOBRICX Improves Living Conditions…

UN Habitat studies have concluded that at least 18% of residential buildings cannot be considered as permanent structurers. And 25% do not meet residential building code regulations. In Sub-Sahara Africa, 10% of urban populations do nor even live in durable housing.

To As a global populations expand, particularly in poorer , more agrarian regions, the demand for housing naturally expands too. Local governments and local communities are always on the look-out for suitable, affordable building technologies and materials with which to provide safe and reliable housing.

ECOBRICX present the best possible solution for very affordable and quickly build durable sustainable housing. The blocks made with ECOBRICX possessing no volatile or toxic compounds , also fire resistant and mold resistant. Furthermore, they posses fantastic thermal resistance and R-value.

Technical Details

Developed and proven through years of field testing, proprietary innovative multi-enzyme based formulation of ECOBRICX provide increase of strength, density and durability of a local soil.

What is ECOBRICX

ECOBRICX is a complex non-bacterial, concentrated, multi-enzymatic formulation that alters the properties of soil materials, providing one of the most cost-effective methods to increase bonding and strength of a soil composition. While enzymes are a core part of the ECOBRICX formulation, the product contains additional organic compounds designed to accelerate bonding of ionic, charged soil particles.

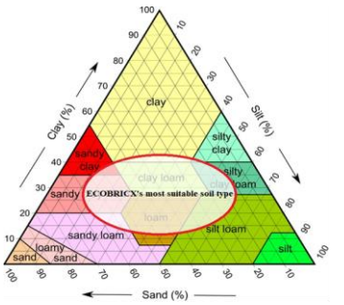
ECOBRICX increases the soil bearing characteristics by promoting a closer binding of soil particles. This reduces the tendency of the soil to expand after compaction and results in a strong, durable, last long earth blocks .

Block production

The soil composition should have at list 15% of fine cohesive materials (clays, silt). 1 liter of ECOBRICX to treat 25 m3 of soil.

Blocks formation should be done below 2%/3% from optimum soil's moisture level.

After formation, compressed blocks should be laid to cure in a shaded area that is well ventilated, curing time between 48-72 hours.



ECOBRICX is Non-toxic and Safe to Use

ECOBRICX is non-toxic, non-corrosive and non-caustic — it does not corrode equipment.

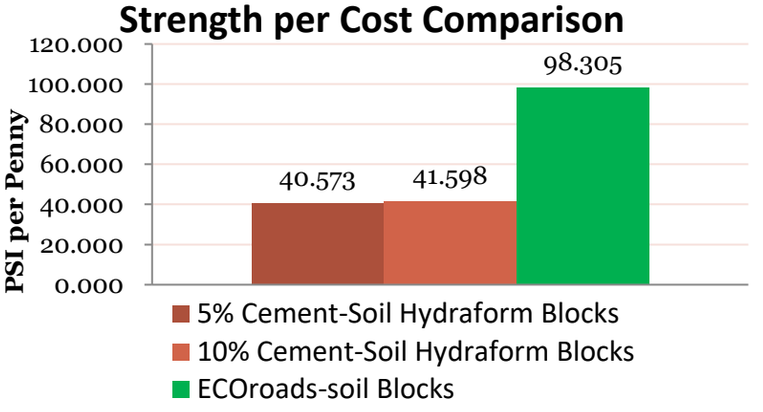
It requires no special handling and no special containment procedures.

It does not irritate skin tissue and causes no rashes or burns.

ECOBRICX contains no any combustible, non-explosive materials, and can be used near open flames.

It is non-gaseous and can be stored in poorly ventilated areas.

It will not harm humans, animals, fish or vegetation under normal use.



Case study shows that by using ECOBRICX were able to produce a compressed earth blocks that is not only twice stronger than made with 10% of cement, but that also costs 52% less.

TerraFusion International, Inc offers a range of biomass-based construction products that help clients save money, simplify construction processes and reduce their environmental impact. TerraFusion is proud to be a leader on the cutting edge of environmentally responsible construction technology.

TerraFusion International, Inc has established distribution partnerships all around the world. To find a distributor near you — or, if you would like to explore becoming a distribution or construction partner — please contact us at **contact@ecoroads.net**

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