

An aerial photograph of a construction site on clay soil. The ground is light brown and shows signs of cracking and unevenness. Several surveying stakes are visible, with one in the foreground having a red flag. The image is framed by a large blue circular graphic on the right side.

ConstruckClayLock[®]

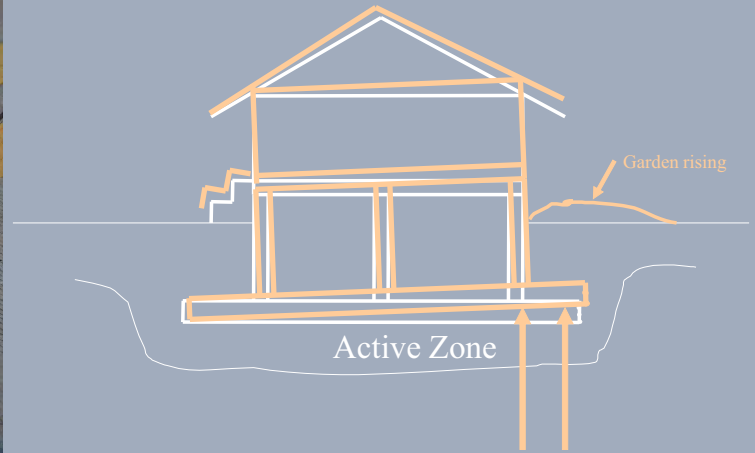
Building structures on clay substrates

Build anything on clay soil with confidence. No more *cracking/heaving/swelling* and repairs

Clay is a finely-grained natural rock or soil material that combines one or more clay minerals with possible traces of quartz, metal oxides and organic matter. Clays exhibit plasticity when mixed with water in certain proportions. However, when dry, clay becomes firm and resulting in a permanent physical and chemical changes.

Clay Problems

- Shrink and Swell
 - Cracking
 - Rising floors
- Loss of bearing capacity
- Heaving with an increase in humidity
- Environmental problems



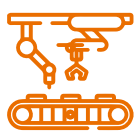
Construck Systems brings you innovative technology to reduce the clay problems and help build on clay substrates.

Salient Features of ConstruckClaylock®

- Designed and Manufactured in The United States
- The Colloidal Character of the soil is Re-structured by ConstruckClaylock®
- The Electrochemical Soil Stabilization with ConstruckClaylock® improves the physical and mechanical characteristics of the soil
- It is an **Irreversible Process**
- ConstruckClayLock® is 100% organic and non-toxic in diluted form and poses no threat to ground water supplies or wildlife.
- ConstruckClayLock® is a cost-effective alternative for gravel roads. A ConstruckClayLock® base with a dust seal requires no maintenance, except perhaps resealing about once a year
- Eliminates the Excavation of in-situ material, and eliminates the filling of the same with coarse aggregates for strength
- ConstruckClaylock® can be used for new construction as well as existing



Intelligent Economics



Intelligent Application



Organic Materials



Intelligent Designs

Method Of Working

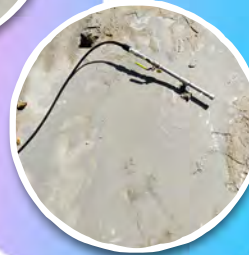
1

Untreated,
Non-compactable,
Unstable, Extremely
expansive clay soil



2

Injection of
ConstruckClaylock®
+ water



3

Dispersing of injected
ConstruckClaylock® + water
through the soil



4

Highly compactable
clay upto 95%,
High shear strength



POST CONSTRUCKCLAYLOCK® APPLICATION RESULTS

• Swell by ASTM D 4546 - B

Max of 4 % after 3 days

• Compaction Proctor Standard

Minimum 95 %

• Increase in bearing capacity

Approximately 50 %

Advantages



- Eliminates excavation



- Improves compaction upto 95 %



- Organic, Environment Friendly.



- Cost effective upto 40%



- Time saving upto 80%



- Can be used under existing structures without disturbing the landscape

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