

**POTENTIAL APPLICATIONS**

- ⇒ COMMERCIAL SITE DEVELOPMENT
- ⇒ SINGLE-STORY BUILDINGS
- ⇒ ROADWAY STABILIZATION
- ⇒ PIPELINE BED STABILIZATION
- ⇒ UTILITY POLE FOUNDATIONS
- ⇒ PARKING LOTS
- ⇒ SHALLOW FOUNDATIONS
- ⇒ DEEP FOUNDATIONS
- ⇒ CUSTOMIZED DESIGNS
- ⇒ DITCH STABILIZATION

**TURNKEY SERVICES**

Madrid Engineering can assess, design, monitor and install **PHOSPHOCRETE™** soil stabilization system. Let us help you save unnecessary excavation and compounded costs. This is a proprietary soft soils stabilization system offered exclusively by MEG, Inc.



*The Earth is Our Business™*

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***MADRID  
ENGINEERING  
GROUP, INC.***

**Can change this:**



**To this:**

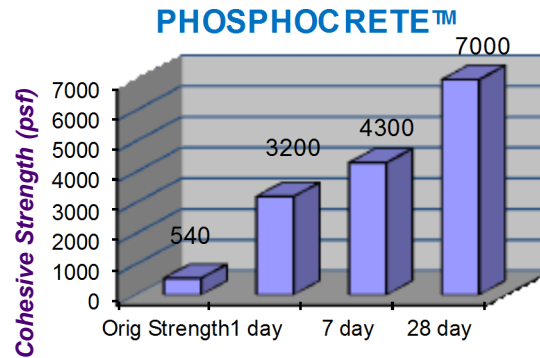


**WITH OUR PROPRIETARY  
PHOSPHOCRETE™  
TECHNOLOGY**

Madrid Engineering Group Inc. (MEG) has developed a new and innovative method, called **PHOSPHOCRETE™**, to chemically stabilize soft soils on areas previously mined for phosphate. Pockets of soft, waste phosphatic clay (often called 'slimes') are highly compressible and weak and may be too extensive to excavate and replace. **PHOSPHOCRETE™** can permanently, chemically alter the clay to create a stabilized platform on which to build.



Waste Phosphatic Clay has the consistency of peanut butter.



Lab tests indicate strength gain of 10 to 100 times initial in less than one month.

The technology is based on research previously conducted for the Florida Institute of Phosphate Research (FIPR) in Bartow, Florida, involving some of the world's leading experts in clay stabilization. MEG has expanded the research, concentrating on developing mix designs and installation techniques that make the technology **cost-effective** compared to deep foundations such as pilings, excavate and replace, or surcharge techniques. Recent efforts included an extensive laboratory test program, a field demonstration, and commercial applications.



**PHOSPHOCRETE™** Looks like typical fill, but cements over time to create a VERY stiff platform on which to build

MEG's proprietary mix design is less **expensive** and **higher strength** than previous technologies. Field mixing can be done in deposits up to 25 feet thick using specialty equipment, or in thinner clay deposits using traditional equipment.

**MEG ALSO PROVIDES geotechnical engineering, construction materials testing, water quality improvement, and environmental assessment services**