

# Pro-SealECCO NanoCrete<sup>®</sup> Oil Fields (dry soils O)



A component of the Pro-Seal ECCO<sup>®</sup> Drill/Fracking Capping dry soil stabilization and toxic binding systems products

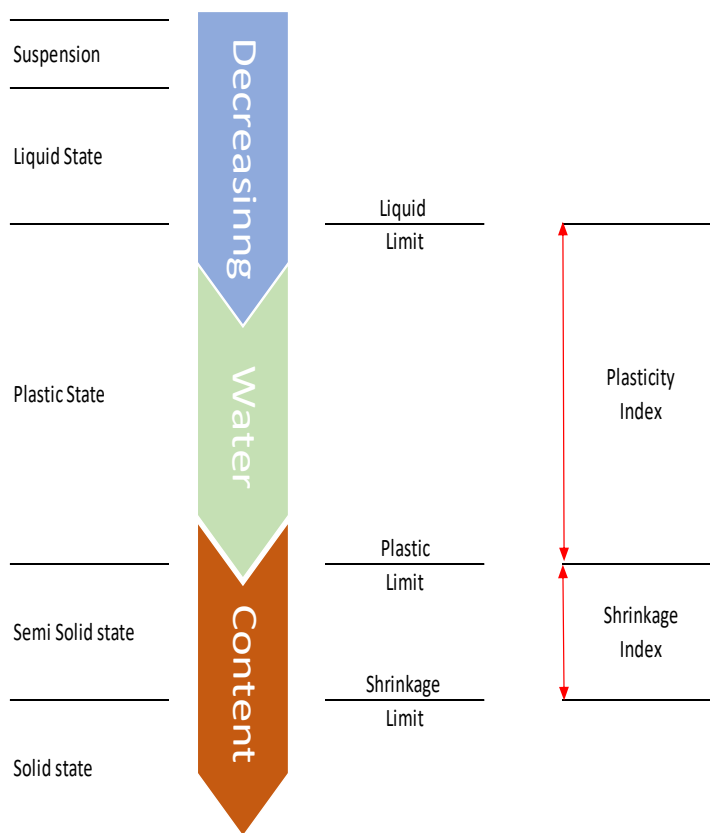
Specifications Typical:

ASTM (modified)	Test	Data Typical
CBR Test 50 Lab Test AASHTO T-193  Additive Rate: 5% lower Up to 12% upper	CBR Final Range .10 penetration (Roads), +900psi - +1500 psi subject to soil type & % additives allowable.	1 day + 750psi 7 day +900psi 28 - day range +1200 to +2600psi Range Mean +1900psi
ASTM C 109	Tensile Shear	24 Hrs. 90psi 7 days 112 psi 28 days 132psi
ASTM C226	Initial Set Time	Initial + 1minute Final ± 45 minutes
CSA	Full Traffic Set	± 12 - 24 Hours



CBR: .1 penetration, up to 2,600 psi, it is hydrophobic, anionic, Rapid set time, in situ mix or pump, full traffic 8 to 12 hrs.

## Atterberg Limit Indices



Technical:

Information	Value
Material	1 part of a System
Mix Time	Till infused
Appearance	Dry, white gray, extremely fine talc powder
Initial Work Time	± 45 minutes
Initial Cure to Time Traffic	±12 Hours
Final Cure Time to Heavies Traffic	± 24 Hours
V.O.C.	Zero
Enviro Hazard	None Known
Packaging	Bulk as Required
Always contact pro-SealCorp technical for guide specification services before using - 800 349 7325	

## Product Description:

Pro-SealECCO NanoCrete<sup>®</sup> O is a Miso inorganic, Nano anionic, infused polymer. This material to be used only with Pro-Seal XXWCrete<sup>®</sup> O, Pro-SealECCO BedR.O.C.<sup>®</sup> O Pro-SealECCO TopR.O.C.<sup>®</sup> O and other O components, as component of the Pro-SealECCO System<sup>®</sup> O to rapidly produce and stabilize road base soils, tailings soils and to repel water to avoid water saturation, liquefaction, potholing, treated soils. The Pro-Seal ECCO System is mixed in situ with the target soils. This process is highly cost effective when it is properly integrated as a system with target soils.



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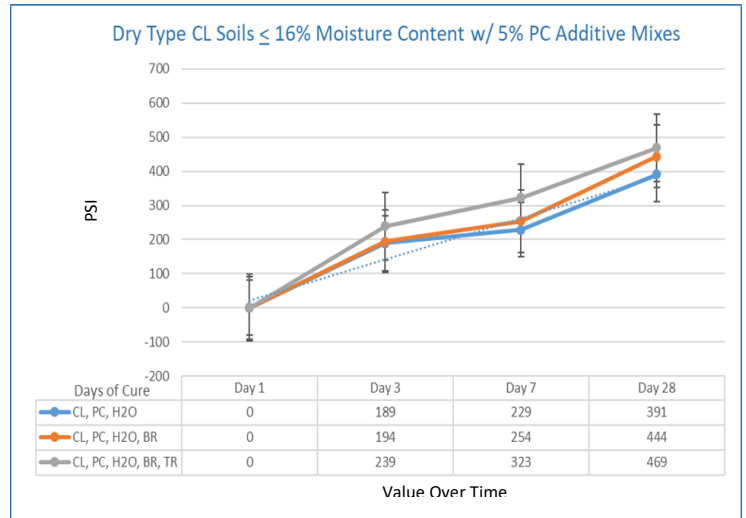


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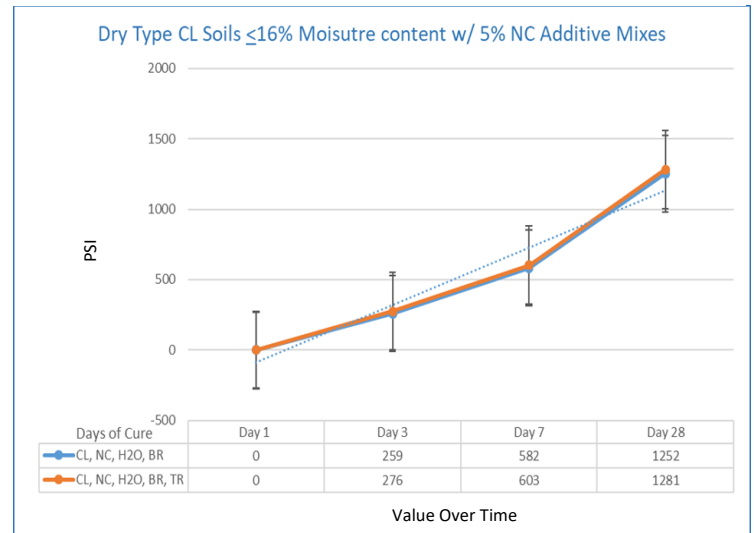


(Above) Durable industrial production pad base and access road. Table (below) displays the results of Atterberg Limit and Plasticity testing for dry natural soils mixed with the Pro-Seal ECCO<sup>®</sup> Stabilization System for mining soils containing  $\leq 16\%$  Moisture Content (MC).

Atterberg Limits		
Soil Classification	Soil Description	Natural Plasticity
CH	Blue Clay	Highly Platicity
CH Pro-Seal <sup>®</sup> Stabilized		
Liquid Limit		No Flow
Plastic Limit		Not Plastic
Plastic Index		NP
Allowable Blows		35
Blows		> 100
% Exceeded Blows		> 65%
Soil Classification	Soil Description	Natural Plasticity
CL	Silty Sandy Clay	Medium Platicity
CL Pro-Seal <sup>®</sup> Stabilized		
Liquid Limit		No Flow
Plastic Limit		Not Plastic
Plastic Index		NP
Allowable Blows		35
Blows		> 100
% Exceeded Blows		> 65%



Compare Portland Cement stabilization psi (above) mixed with natural mining soils versus NanoCrete stabilization psi mixed with natural mining soils (below). NanoCrete stabilization clearly demonstrates significantly greater performance.



**Caution:** Use only with Pro-SealECCO<sup>®</sup> System materials Pro-SealECCO<sup>®</sup>; NanoCrete<sup>®</sup> (all forms), XXXWCRETE<sup>®</sup> (all forms), BedR.O.C.<sup>®</sup> (all forms) and TopR.O.C.<sup>®</sup>. Wear a dust mask, see SDS, as Pro-SealECCO<sup>®</sup> materials may cause irritation to sinuses, irritate allergies, or cause pneumonia. Keep out of reach of children. Always keep lids on open pails. Call a Doctor immediately if swallowed. Do not induce vomiting.

It is up to the user to determine if this product and system are appropriate for their own uses. Pro-SealCorp<sup>®</sup> makes no claim of warranty of use or performance verbal or written. Any such claim is not valid unless authorized, properly documented, procedural written format and authorization is made by appropriate officers of Pro-Seal Corp<sup>®</sup>.