

# Pro-Seal XXXWCrete® Mining (wet soils M)



A component of the Pro-Seal ECCO® wet soils, soil stabilization and toxic mineral binding systems products

## Specifications:

ASTM (modified)	Test	Data Typical
CBR Test 50 Lab Test AASHTO T-193  Additive Range: 5% lower 12% upper	CBR Final Range .10 penetration (Roads), +900psi - +1500psi subject to soil type & % additives allowable.	1 day + 750psi 7 day +900psi 28-day range +1130 to +1925psi Range Mean +1527psi
ASTM C 109	Tensile Shear	24 Hrs. 90psi 7 days 110psi 28 days 128psi
ASTM C226	Initial Set Time	Initial +1 min. Final ± 30 min.
CSA	Full Traffic Set	± 12 - 24 Hours

## Technical:

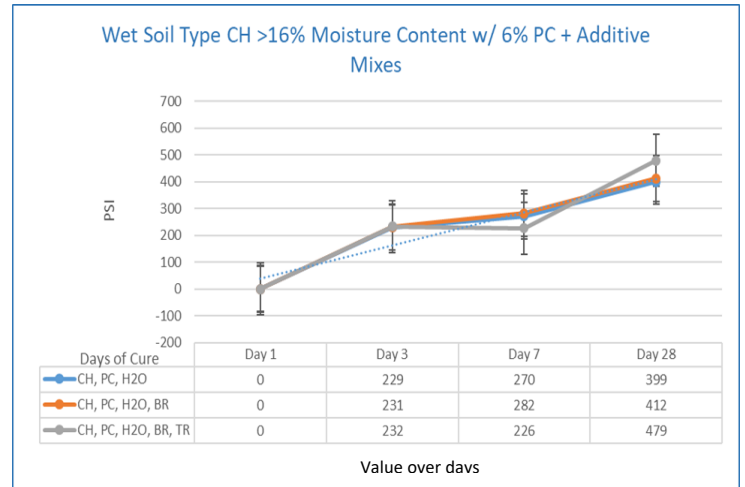
Information	Value
Material	1 part of a System
Mix Time	Till infused
Appearance	Dry, dirty gray, extremely fine talc powder
Initial Work Time	+ 35 minutes
Initial Cure to Time Traffic	+08 Hours
Final Cure Time to Heavies Traffic	+24 Hours
V.O.C.	Zero
Enviro Hazard	None Known
Packaging	Bulk as Required

Always contact pro-SealCorp technical for guide specification services before using - 800 349 7325

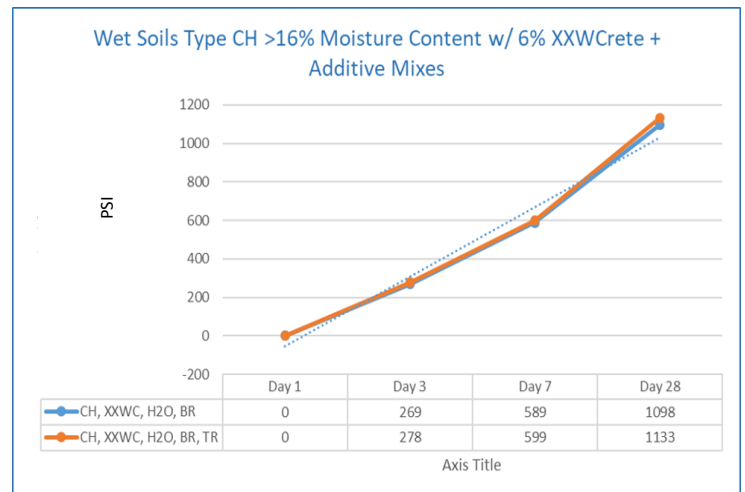
## Product Description:

Pro-Seal XXXWCrete® is a Miso inorganic, Nano Novel Matrix material. Pro-SealECCO XXXWCrete® M material is to be used only used only with Pro-SealECCO NanoCrete® M, Pro-Seal BedR.O.C.® M and Pro-Seal TopR.O.C.® M in **wet classified soils conditions** as a component of the patent pending Pro-Seal-ECCO System® to structurally stabilize toxic mine tailings soils. It repels water to avoid water saturation, contains leaching, washouts, potholing and rutting or liquifaxing of treated soils. It 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. Controls leaching of PFOS/PFAS and RCRA 8 metals.

Below Comparative Strength Tables, Wet Soils Stabilization Portland cement versus Pro-SealECCO XXXWCrete® M.



Compare Portland Cement stabilization (above) in wet soils versus XXXW-crete M soil stabilization for wet soils (below). XXXWCrete M stabilization demonstrates significantly clearly greater performance.



CBR: .1 penetration, up to 1,925 psi, it is hydrophobic, anionic, Rapid set time, in situ mix or pump, full traffic 8 to 12 hrs. PSI exceeding 700 psi are possible.

• Pro-SealCorp • 11410 • NE 124<sup>th</sup> St • Ste 584 • Kirkland • WA • 98034 •

• Telephone: Order Desk or Technical • 800-349-7325 • Web: [prosealcorp.com](http://prosealcorp.com) • Email: [Information@prosealecco.com](mailto:Information@prosealecco.com) •

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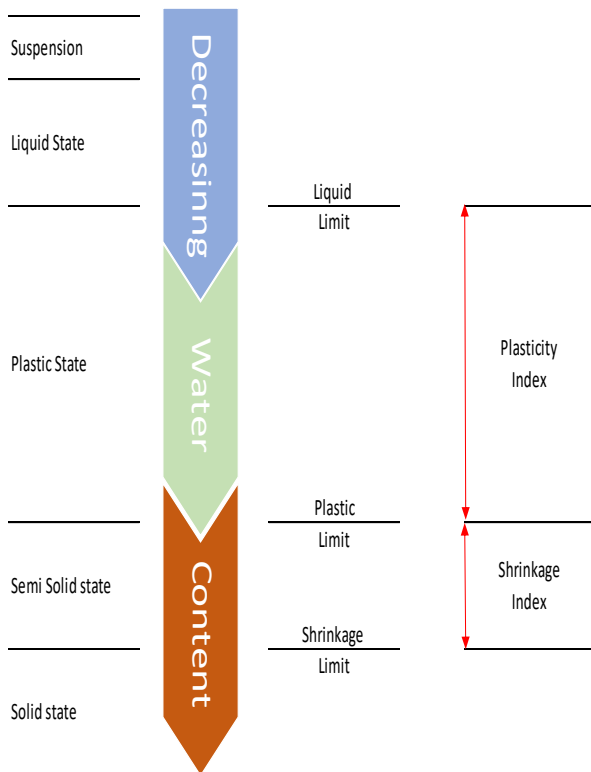


Table (below) displays the results of Atterberg Limit and Plasticity testing for natural wet tailings soils, mixed with the Pro-SealECCO® Stabilization System, containing >16% minimum +4% Moisture Content (MC).

**Atterberg Limits Results at >16% Moisture Content (MC) minimum 4% > MC**

. 16% MC Atterberg Limits (Wet Soils Testing >16% Mc, minimum 4% >)		
Soil Classification	Soil Description	Natural Plasticity
CH	Blue Clay	Highly Platicity
<b>CH Pro-Seal® Stabilized</b>		
<b>Liquid Limit</b>		No Flow
<b>Plastic Limit</b>		Not Plastic
<b>Plastic Index</b>		NP
<b>Allowable Blows</b>		35
<b>Blows</b>		> 100
<b>% Exceeded Blows</b>		> 65%
Soil Classification	Soil Description	Natural Plasticity
CL	Silty Sandy Clay	Medium Platicity
<b>CL Pro-Seal® Stabilized</b>		
<b>Liquid Limit</b>		No Flow
<b>Plastic Limit</b>		Not Plastic
<b>Plastic Index</b>		NP
<b>Allowable Blows</b>		35
<b>Blows</b>		> 100
<b>% Exceeded Blows</b>		> 65%

### Atterberg Limits Indices



Table( Right)

### Caution:

Use only with Pro-Seal ECCO System® materials Pro-SealECCO; NanoCrete (all forms), NanoCrete® (all forms), BedROC® (all forms) and TopROC®. Wear a dust mask, see SDS, as Pro-SealECCO® 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 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.

