

Pro-SealECCO NanoCrete[®] Fly Ash (dry soils E)



Is an essential, dry soils component of the Pro-Seal ECCO[®] tailings soil stabilization and toxic binding systems products

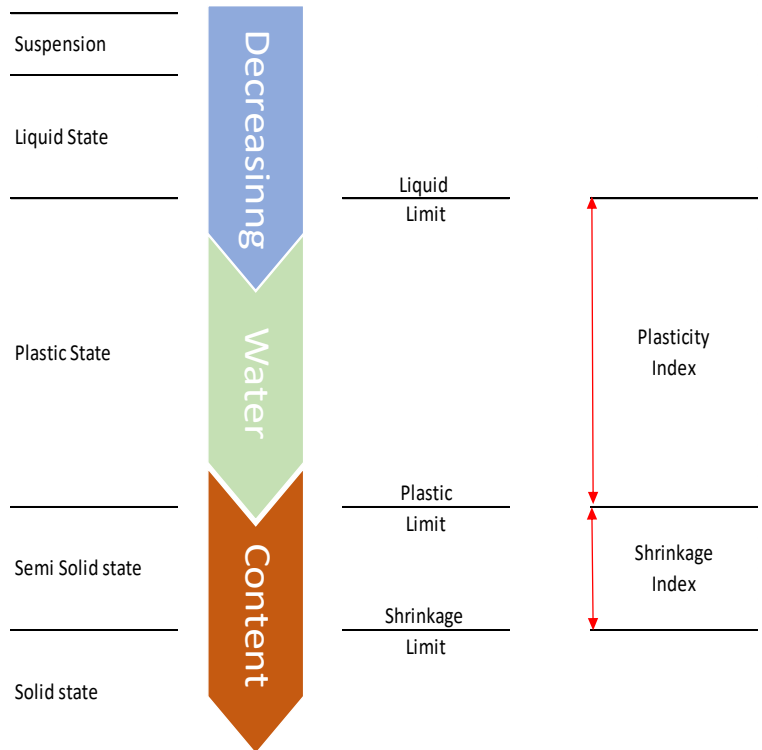
Specifications Typical:

| ASTM (modified) | Test | Data Typical |
|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| CBR Test 50 Lab Test ASTM 1888 AASHTO -193 ASTM Field Test 4489 | 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[®] E is a Miso inorganic, Nano anionic, infused polymer. This material to be used only with Pro-Seal XXWCrete[®] E, Pro-SealECCO BedR.O.C.[®] E. Pro-SealECCO TopR.O.C.[®] E and other E components, as a component of the Pro-SealECCO System[®] E to rapidly produce and stabilize fly ash and fly ash soils, to repel water to avoid water saturation, liquefaction, washouts of treated fly ash and fly ash soils. The Pro-SealECCO[®] 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 fly ash and fly ash soils.



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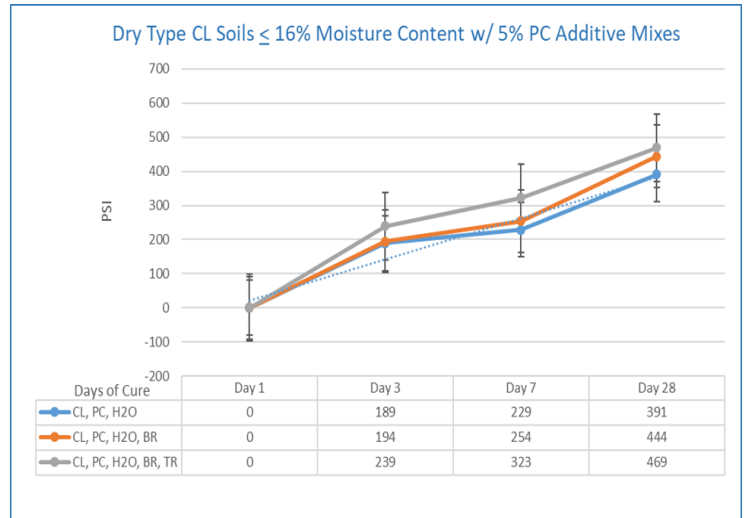


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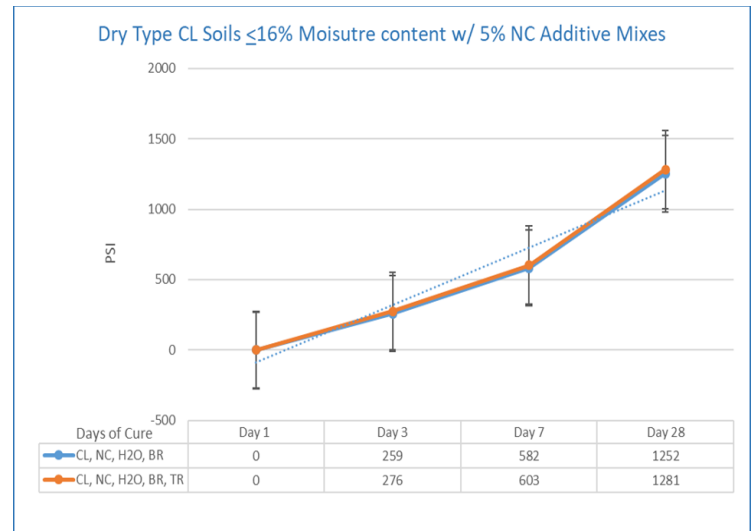


(Above) Fly ash being pumped to storage berm pond. Table (below) displays the results of Atterberg Limit and Plasticity testing for dry natural soils mixed with the Pro-SealECCO[®] Stabilization System for mining soils containing $\leq 16\%$ Moisture Content (MC).

| Atterberg Limits | | |
|-------------------------------------|------------------|--------------------|
| Soil Classification | Soil Description | Natural Plasticity |
| CH | Blue Clay | Highly Platicity |
| CH Pro-Seal [®] 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 |
| CH Pro-Seal [®] 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[®] System materials Pro-SealECCO[®]; NanoCrete[®] (all forms), XXXWCRETE[®] (all forms), BedR.O.C.[®] (all forms) and TopR.O.C.[®]. 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[®].