

Pro-SealECCO BedR.O.C.® Mining (concentrate M)



A Nano Miso inorganic polymer for mix with Pro-SealECCO NanoCrete® (dry soils) or Pro-SealECCO XXXWCrete® (wet soils)



Category: Mining soils stabilization, Toxic soils Binder and Containment and Molding Soils medium; must be used with Pro-SealECCO NanoCrete® and/or Pro-SealECCO XXXWCrete® in tailings oils as specified.

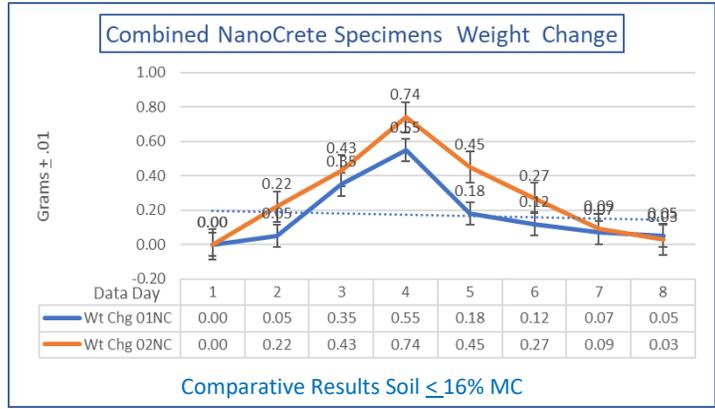
Description: Pro-SealECCO BedR.O.C. M® is a vitriform liquid In situ component of patented Pro-SealECCO's rapid setting mining soils stabilization, containment and soil molding compound for the patented Pro-SealECCO Soils Stabilization System®. The system forms a high-density mass that is significantly structurally enhanced, anchored and stabilized, to maintain slopes, stop mud, stop dusting, and allow heavy vehicular traffic. The Pro-SealECCO® M mixture is designed site specific, determined by site specific needs. Pro-SealECCO BedR.O.C.® M, mixed properly with Pro-SealECCO NanoCrete® M or Pro-SealECCO XXXWCRETE® M and soil, per guide specifications, can bind in and contain toxic mine tailing or other toxic soil leachates.

Tailings Specimens, Tested as Follows: (modified tests)		
ASTM	Data	Value
C-67, Section 7	Decreased Absorption	Hydrophobic
C-67, Section 14	Decreased Suction	Anionic
C-67, Section 7	Leaching Efflorescence	Initial Cure
C-156	Stabilizing, avoiding hairline cracking	Significant >
C-666	Freeze thaw damage	86% improved
C-666 Using 5% NaCl	Salt attack in the presence of moisture	95% improved
ORF Method	Dusting due to abrasion	100% improved

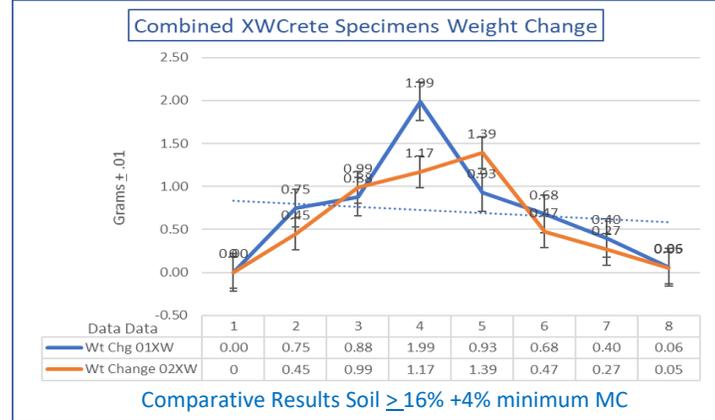
Note: Above mixed with NanoCrete. XXWCrete and Soils

Information	Value
Material	1 part
Mix Time	N/A
Appearance	Liquid
Freeze Temp	32°F/0°C
Boiling Point	212°F/ 100°C
V.O.C.	Zero
Enviro Hazard	None Known
Packaging	Bulk as Required

Product: Pro-SealECCO BedR.O.C.® M is a Nano Miso Inorganic Polymer that creates strong cross linking and a hydrophobic /anionic mass when used with Pro-SealECCO NanoCrete® M and/or Pro-SealECCO XXXWCRETE® M and Pro-SealECCO TopR.O.C.® M for mine soils.



Dry Soils Moisture content (MC) Results:
Water Expulsion = Hydrophobic/Anionic



Wet Soils Moisture content (MC) Results:
Water Expulsion = Hydrophobic/Anionic

The following table (right) displays the leach limits of a variety of toxic materials after a thirty-day exposure to the leaching medium, which far exceeds the 18 hour leaching exposure limits parameters of the standard TCLP testing required by the EPA. You will note the binding and containment of critical toxic leachates is extremely significant and substantially greater than any current technology has-the-ability-to achieve.



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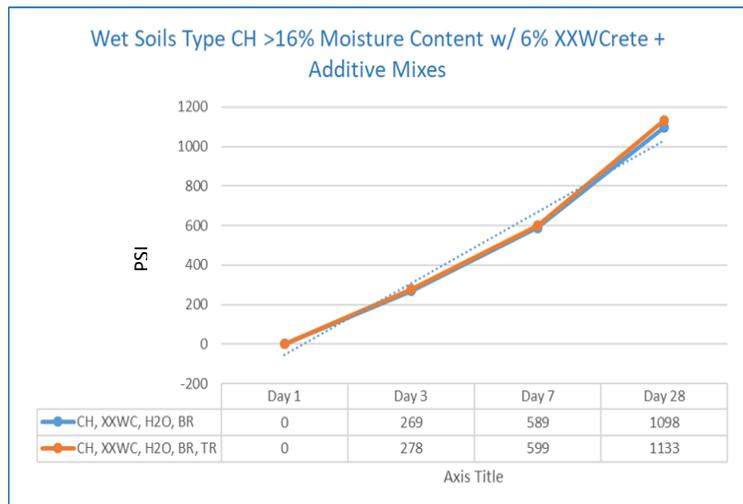
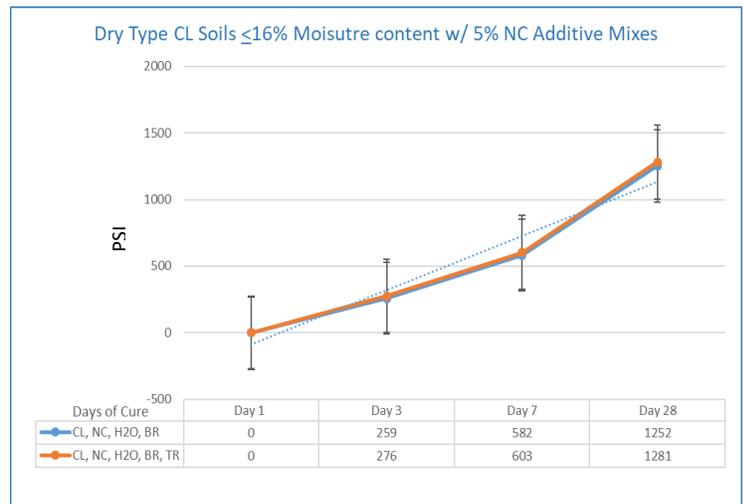


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Leachates From Pro-SealECCO® Bound Tailings Soils	Description	Parts per Million ppm
Volitile Organic Compounds	VOC's	0.0 Zero
Arsenic	AS	0.0005
Mercury	Hg	<.01
Zinc	ZN	0.03
Copper	CU	0.03
Nickle	Ni	0.03
iron	Fe	0.03
Manganese	Mn	0.0002
Chromium	Cr	0.0005
Vanadium	V	0.01
Calcium	Ca	0.3
Potassium	K	45.3
Aluminum	Al	0.001
Magnesium	Mg	0.0002
Sodium	Na	0.3
Argentum	Ag	0.18
Aurum - Gold	Au	0.01
Barium	Ba	<.01
Berylium	Be	<.01
Bismuth	Bi	<.01
Cadmium	Cd	<.01
Cerium	Ce	<.01
Cobalt	Co	<.01
Dysprosium	Dy	<.01
Erbium	Er	<.01
Europium	Eu	<.01
Gallium	Ga	<.01
Gadolinium	Gd	<.01
Hafnium	Hf	<.01
Holmium	Ho	<.01
Lathanium	La	<.01
Lutetium	Lu	<.01
Molybdenum	Mo	<.01
Niobium	Nb	<.01
Neodymium	Nd	<.01
Phosphorus	P	<.05
Plumbum	Pb	<.01
Praseodymium	Pr	<.01
Rubidium	Rb	<.01
Rhenium	Re	<.01
Sulfate	S	
Antimony	Sb	<.01
Selenium	Se	<.01
Samarium	Sm	<.01
Stanum	Sn	<.01
Stronium	Sr	1.1
Terbium	Tb	<.01
Tellurium	Te	<.01
Titanium	Ti	<.01
Thallium	Tl	<.01
Thulium	Tm	<.01
Uranium	U	<.01
Wolfram	W	<.01
Yttrium	Y	<.01
Ytterbium	Yb	<.01
Zirconium	Zr	<.01



See graphs (below) for increased PSI strength of Pro-SealECCO® stabilized soils structures and roads.



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 approved by an authorized Pro-SealCorp representative.