

Pro-SealECCO TopR.O.C.® Landfill (concentrate G)



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



Category: Stabilization, toxic landfill soils Binder and Containment as well as Molding Soils medium. Must be used with Pro SealECCO, NanoCrete® and / or Pro-Seal® XXXWCrete and Pro-SealECCO®. BedROC in soils as specified.

Description: Pro-SealECCO TopR.O.C.® G is a vitriform liquid surface component of the patented Pro-SealECCO®'s rapid setting waste management soils stabilization, containment, and soil molding compound for the 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 traditional vehicular traffic. The Pro-SealECCO® soils mixture is designed site specific, determined by site specific needs. Pro-SealECCO TopR.O.C.® G, applied properly with Pro-SealECCO NanoCrete® G and / or Pro-SealECCO XXXWCRETE® G, Pro-SealECCO BedR.O.C.® G and soil, per guide specifications, can bind in and contain Toxic landfill soils or other toxic soil leachates.

Specifications:

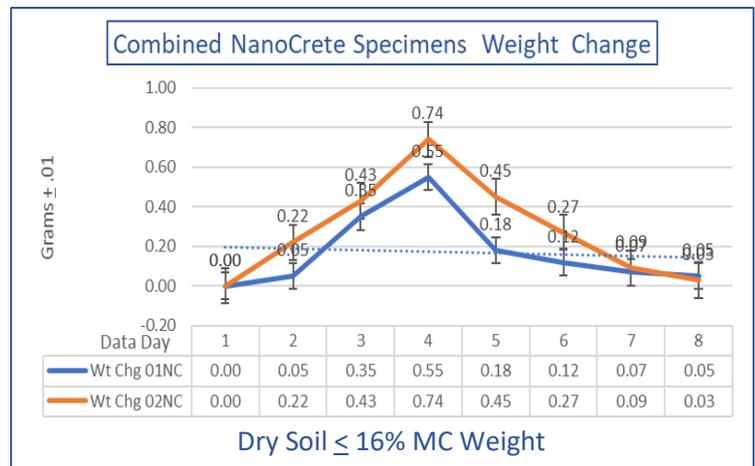
Tailings Specimens Tested as Follows: (modified tests)		
ASTM	Data	Value
C-67, Section 7	Decreased Absorption	Hydrophobic
C-67, Section 14	Decreased Suction	Anionic
C-67, Section 7	Leaching Efflorescence	initial cure
C-156	Stabilizing, avoiding hairline cracking	Significant >
C-666	Freeze thaw damage	98% improved
C-666 Using 5% NaCl	Salt attack in the presence of moisture	97% improved
ORF Method	Dusting due to abrasion	100% improved

Pro-SealECCO® TopROC G when properly incorporated into the Pro-Seal® waste management soil stabilization and binding system significantly enhances the systems ultimate performance over time. Pro-Seal has formulas that are customized to your soils and the intended needs of those soils for both normalized moisture contents and high moisture content soils as demonstrated in the following two tables (below and right).

Technical:

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 TopR.O.C.® G is a Nano Miso organic Polymer that creates strong surface cross linking and a hydrophobic/anionic mass when used with Pro-SealECCO NanoCrete® G and/or Pro-SealECCO XXXWCRETE® G and Pro-SealECCO BedR.O.C.® G to stabilize and contain landfill soils.



Results: Dry Natural landfill Soils become Hydrophobic/Anionic when stabilized with Pro-SealECCO® stabilization systems. This event greatly disallows instability and liquefaction potential of soil structures and road ways.



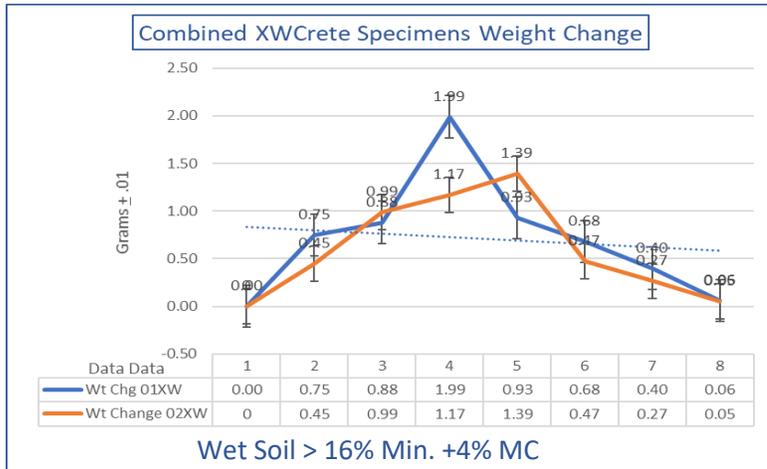
• Pro-SealCorp • 11410 • NE 124th St • Ste 584 • Kirkland • WA • 98034 •

• Telephone: Order Desk or Technical • 800-349-7325 • Web: prosealcorp.com • Email: Information@prosealecco.com •

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



Results: Wet Natural landfill Soils become Hydrophobic/Anionic when stabilized with Pro-SealECCO® stabilization systems. This event greatly disallows instability and liquefaction potential of soil structures and road ways.



For industrial waste management road bases, storage ponds or berms; 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 substantial. For technical test papers go to prosealecco.com, technical papers tab.

Caution: Use only with Pro-SealECCO System® materials Pro-SealECCO; NanoCrete (all forms), XXXWCRETE (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-SealCorp®.

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
Lanthanium	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

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