

Pro-SealECCO TopR.O.C.[®] oil Fields (concentrate O)



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



Category: Stabilization, toxic 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.[®] O is a Vitriform liquid surface component of the patented Pro-SealECCO's rapid setting road base and platform 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.[®] O, applied properly with Pro-SealECCO NanoCrete[®] O and / or Pro-SealECCO XXXWCRETE[®] O, Pro-SealECCO BedR.O.C.[®] O and soil, per guide specifications, can bind in and contain toxic soils or other toxic soil leachates.

Pro-SealECCO[®] TopROC O when properly incorporated into the Pro-Seal[®] road base 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).

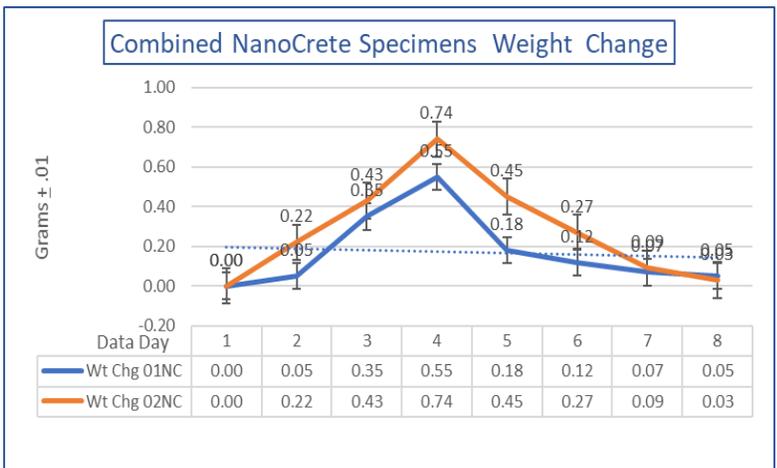
Specifications:

| 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 |

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.[®] O is a Nano Miso organic Polymer that creates strong surface cross linking and a hydrophobic/anionic mass when used with Pro-SealECCO NanoCrete[®] O and/or Pro-SealECCO XXXWCRETE[®] O and Pro-SealECCO BedR.O.C.[®] O.



Dry Soil ≤ 16% MC X Weight

Results: Dry Natural Tailings 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.



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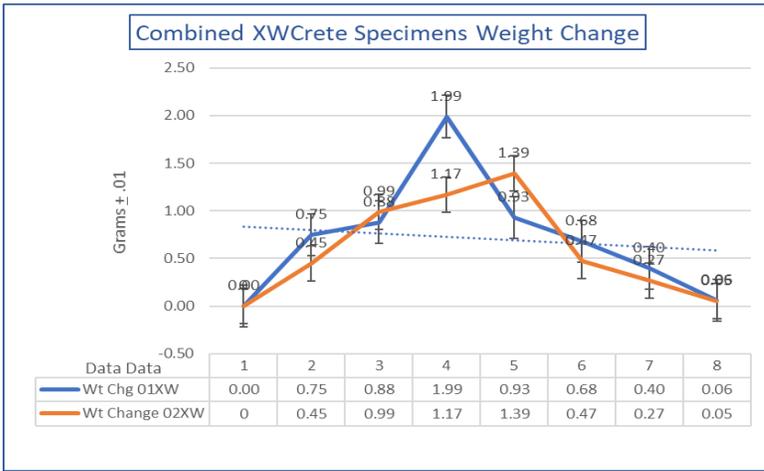
• Telephone: Order Desk or Technical • 800-349-7325 • Web: prosealcorp.com • Email: Information@prosealecco.com •

Pro-SealECCO TopR.O.C.® Oil Fields (concentrate O)



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

Wet Soil > 16% + 45 Minimum Moisture Content X Weight



Results: Wet Natural Tailings 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 road bases, 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.

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 |
| Potasium | 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 |
| Gadolium | 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 |

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