





### **Technical**

# **Product Description**

Pro-Seal ECCO® is a green, Nano Novel Matrix, basin soil semi to structural soil stabilization and monolithic membrane barrier system. This Pro-Seal-ECCO® System is designed to contain leachates, low level radiation, PFOS, PFAS, methane, radon, and other landfill gases. The completed manages greywater. hazardous fluids, and gasses driving them to designed subterran-ean landfill vapor and drainage management systems. company may warranty qualified projects, Pro-SealCorp® subject corporate approval. The Pro-Seal ECCO System<sup>®</sup> is designed site soil specific, to integrate gas management. vapor greywater management, and other fluid and leachate management. This allows for longer service life expectations. The system is seamless affording less opportunity for membrane failures due to seam welds or gluing.

### **Production Rates The Basics**

Pro-SealECCO System® for landfill incorporates in situ infusion of semi to structural stabilization of soi,I with our in situ applied, Nano Novel Matrix, and seamless, elastomeric, monolithic, membrane barrier coating. Flex-System II® membrane is applied directly over the semi to structural stabilization. This is a rapid install process system. A trained, eightman-crew, with eight pieces of equipment, is able to install Pro-Seal*ECCO* System® at a rate of up to one-hun-dred-seventeen-thousand ft² of surface area per day.

Crews using tank trucks, with pressurized tanks, and proper spreader spray bars, apply hundreds of thousands of ft² of Pro-Seal-*ECCO* FlexSystem II® seamless, elastomeric, monolithic membrane per day, Rates for both systems are topography dependent.

The Pro-SealECCO System ® complete laminated system assembly results as test by Independent laboratories (right, top).

Test Result			
ASCE ASTMS	Evaluation Allowed		Result
E-96-80-L021	Water Vapor Transmision	Perms Max Allowed 1.0	0.004 Passed Exceeds Parameters
E-154-88 Sec. 13	Decay Resistance	%Wieght Gain Max Allowed 10%	0.015 Passed Exceeds Parmeters
D-638 L021	Tension	Lbs. per ft @ Break	33.4 Passed Exceeds Parameters
D-638 L021	Elongation	% Elongation @ Break Mim. Allowed 25%	48.3% Passed Exceeds Parameters
D 903 L021	Shear Sdhesion tp Concrete	Lbs. per ft@ failure min. Allowed 1 ft lbs	5.54 Passed Exceeds Parameters
E-154-88 Section 10	Punture Resistance	Lbs per ft of Force @ Puncture Min. 40 Lbs.	110.5 (±.5) Passed Exceeds Parameters
C-836 L021	Hardness	Depth of Penetration Min. Hardness Allowed 50	52 Passed
D-751 L021	Hydrostatic Pressure Resistance	Pressence of Water @ PSI	No Water Present @ >168 psi
E-1454	Methane permeability	Vapor Transmition Rate ml/day/m² atmosphere (avg)	No Vapor Detected Passed

All test data is based upon laboratory test results. Actual field results may vary due to site conditions, environmental factors, facilities uses, or other undetermined impacts or factors at the project site.

# The test results say it all!

Pro-SealECCO's® combined semi to structural stabiliz-ation, waterproofing, greywater management, and gas-ses containment system is the most cost effective, efficient install, high quality system on the market today. The System with plumbing controls dangerous methane gas migration, creates waterproofing, stops leaching, and offers greywater management at your site. With up to 35-year warranties available. Additionally, tremendous labor costs and time are saved due to rapid installation.





# Installation Process (not to scale)

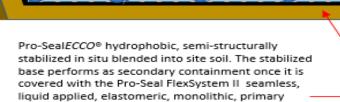
# Landfill Storage Secondary and Primary Containment Basin Construction

Gravel filter laver with drain tile grid for greywater or other fluids.

Geo Filter Fabric to be covered with protective soil layer.

containment liner.

Pro-Seal FlexSystem II® impermeable liquid aplied, monolithic, seamless, elastomeric, containment liner, applied directly to semi-structurally stabilized site soil.



Greywater contaminant fluids collection system. Fluids to be sent and/or pumped to treatment facility.

The schematic, above, represents the simplicity of the construction of a Pro-Seal-ECCO® landfill stabilized and lined basin. Using soil in-place with Pro-Seal ECCO® Nano Novel Matrix additives we create a semi to structural secondary containment basin, that is hydrophobic. The stabilized basin is then sprayed with Pro-Seal Flex-System II® a chemical seamless. resistant. monolithic. elastomeric. membrane, as a primary containment barrier. The drain tile system is then placed and covered with the traditional materials.

Installation (typical, always contact Pro-Seal technical for your site)

- The Pro-Seal ECCO® Stabilization additives (NanoCrete, BedR.O.C., and other as required) are placed over the predeveloped exposed basin soil.
- Pro-SealECCO® additives are then mixedinto the site soil (in situ) at the predetermined depth. This process is a high speed placement on the basin floors and slopes.

- followed by back dragging to smooth and mildly compress.
- Followed drum rollers to dynamically compress the soil.
- followed by pneumatic rollers to tightly compress the surfaces of the now stabilized basin soils.
- Simultaneously apply of Pro-Seal ECCO Top R.O.C., spread by tank truck with a spreader bar. Allow to cure 24 hours.
- Allow complete system to cure 14 days cure minimum.
- Apply Pro-Seal ECCO Flex System II, to 14 day minimum cured basin, with a pressureized tank truck, using a spreader bar. Apply at a coverage rate of 20 ft.2 per gallon (typical). Allow minimum to cure 12 hours.

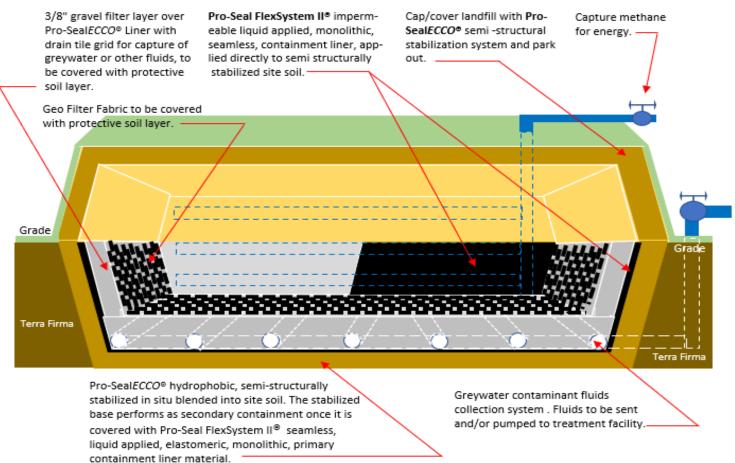
If multiple coats of Pro-Seal ECCO FlexSystem II are required apply in under 12 hours from previous coat application.





# Cover and Park Out (not to scale)

## Closing Landfill Storage Secondary and Primary Containment Construction



Above is the Pro-Seal ECCO® System semistructural cap cover placed over a closed landfill. The system captures greywater, contaminant fluids, and gasses. Methane may be repurposed for energy use as appropriate. The landfill cap is "parked out" at close with a root heavy ground cover, plants, trees, grasses, or others, to be reintroduced as a park or other practical site use function.

# **System Component Information**

The component Pro-Seal ECCO Nano Crete® gen- eral product information is in the table, left. For more in depth information see the Pro-SealECCO NanoCrete® technical tests table following, page 5.

Information	Value
Material	Talcish Powder
Mix Time	In Situ mixed
Appearance	Very light Grey
V.O.C. Content	ZERO
Flash Point	Will Not Flash
Service Temperature	≥48°F /8.89°C
Initial Set	15-20 minutes nominal
Cure Time	14 to 28 days
Weight	105 lbs/f³ nominal
Spread Rate	Detrmined per site soils
Shelf Life	1 yr stored properly
Packaging	1 ton totes, 2 ton totes





# **Technical System Component**

ASTM	Test	Data (	Typical)
ASTM C 109	5% additive Compressive Strength (psi)	1 day 7 days 28 Days	6,250 11,440 12,600
	Tensile (psi)	24 hrs. 7 days 28 days	390 780 1,280
ASTM C 266	Set Time		minute minutes
CSA A 23.2-6B	Tensile Pull (psi)	Final	409
USACE CRD-C62	21		
	Platicity	Pas	sed
	Fluidity: plastic water	3 days	+ 0.02
	content 6 pints flow:100	14 days	+ 0.01
	seconds expansion	28 days	+ 0.01
		1 day	6,000
	24% additive	3 days	8,000
	Compressive Strength	7 days	10,000
	(psi)	28 Days	11,000
	Fluidity: Flowable water	3 days	+ 0.01
	content 7 pints flow: 130	14 days	+ 0.01
	seconds expansion	28 days	+ 0.01
Aterberg		1 day	6,500
Limits	24% Additive	3 days	8,000
	Compressive Strength	7 days	10,000
	(psi)	28 Days	11,000
	Fluidity: Fluid water	3 days	+ 0.01
	content 8.3 pints flow:	14 days	+ 0.01
	30 seconds expansion	28 days	+ 0.01
		1 day	4,500
	24% additive	3 days	7,000
	Compressive Strength	7 days	8,500
	(psi)	28 Days	10,000
	Shrinkage	Zero	
	Absorption	Hydrophobic	
240/ additive	Strikes		20

Results based on laboratory testing actual field application result may vary.

Strikes

# **System Component**



Pro-Seal ECCO® additives NanoCretes and XW-Cretes are blended in situ of the site soils with Pro-Seal-ECCO BedR.O.C.® based upon your site environments.

Pro-SealECCO XWCretes with BedROC mixes are mixed in situ. They are formulated and designed into wet or active water site soils environments.

Pro-SealECCO NanoCretes with BedROC mixes are mixed in situ. They are formulated and designed into dry site soils environments.

These Pro-SealECCO semi to structural stabilization systems contain toxic leachates present in contaminated soils such as, \*RCRA 8 metals arsenic, lead, copper, selenium, and much more. Pro-Seal ECCO Nano Novel Matrix® in situ earthen semi to structural stabilization creates a barrier that contains a variety of other leaching materials such as acid rock, low level radiation, PFOS, PFAS, and Fly ash, stopping potential migration. Pro-Seal-ECCO® contains the soil leachates at levels better than or equal to EPA allowable limits.

The process begins with sending your facilities site soils reports and/or soil samples to Pro-SealCorps® labs. Based on your desired goals and characteristics for soils, Pro-Seal Labs® creates your custom Nano Novel Matrix soil design. Our lab determines what formulation, what additives, what type of mix, will be required to substantially meet the needs and/or goals for your facility site soils. Once formulation is achiev -ed our Pro-Seal® technical department develops a guideline specifications and/or guideline sketches for the application implementation of the stabilization and or semi to structural stabilization system, designed for installation at your facility site.



24% additive

> 20

<sup>\*</sup>Mercury not yet tested; it was not present in test soils.



# **System Technical**



# BedR.O.C.® Category:

Landfill soils stabilization, toxic leachate binder is used for site soils to achieve containment and molding of soils mediums;
BedR.O.C. used with Pro-Seal ECCO Nano-Cretes® and/or Pro-Seal ECCO XW-Cretes® in soils as specified.

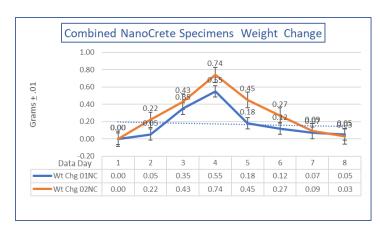
Tailings Specimens, Tested as Follows: (modified tests)		
ASTM	Data	Value
C-67, Section 7	Decreased Absorption	Hydrophobic
C- 67, Section 14	Decreased Suction	Anionic
C-67, Section 7	Leaching Efflorescence	Initial Cure
C-156	Stabilizing, avoiding hairline cracking	Significant >
C-666	Freeze thaw damage	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 results (typical) when mixed with Pro-SealECCO NanoCretes® and Pro-SealECCO XWCretes® and Soils.

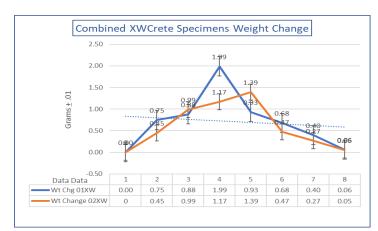
Information	Value
Material	1 part
Mix Time	N/A
Appearance	Liquid
Freeze Temp	32°F/0°C
<b>Boiling Point</b>	212°F/ 100°C
V.O.C.	Zero
Enviro Hazard	None Known
Packaging	Bulk as Required

**Product:** Pro-Seal*ECCO* BedR.O.C® is a Nano Novel Matrix® additive that creates strong cross linking and a hydrophobic /anionic mass when used with Pro-Seal*ECCO* NanoCrete® and/or Pro-Seal*ECCO* XWCRETE® and Pro-Seal-*ECCO* Top-R.O.C.®.

Description: Pro-Seal ECCO BedR.O.C.® is a semisolid, vitriform, fluid, placed in situ with NanoCretes Pro-SealECCO's ® rapid setting landfill soils stabilization, containment, and soil molding compound. The system forms a high-density mass that is significantly structurally enhanced, stabilized, soil. It maintains slopes, stopping mud, dusting, and leaching. It allows heavy vehicular traffic. The Pro-Seal ECCO® is custom formulated and designed site soil specific, based upon client site specific needs. Pro-Seal ECCO Bed-R.O.C.®, when mixed properly with Pro-Seal ECCO Nano-Cretes® or Pro-Seal-ECCO XWCretes® and your site soil, can bind in toxic soil leachates as previously described, such as silver, lead, and contain contaminants such as PFAS, PFOS, low level radiation, acid rock, and more.



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



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

All results in this document are based on laboratory testing actual field application result may vary.



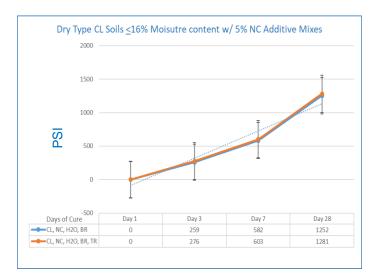


Leachates from Pro-Seal <i>ECCO</i> Stabilized Mine Tailings Soils	Description	Parts Per Million (ppm)
Volitile Organic Compounds (V.O.C.s)	V.O.C.	0.0000
Arsenic	As	0.0005
Mercury	Hg	<.01
Zinc	Zn	0.0300
Copper	Cu	0.0300
Nickle	Ni	0.0300
Iron	Fe	0.0300
Manganese	Mn	0.0002
Chromium	Cr	0.0005
Vandium	V	0.0100
Calcium	Ca	0.0300
Potasium	K	45.3000
Aluminum	Al	0.0010
Magnesium	Mg	0.0002
Sodium	Na	0.3000
Argentum	Ag	0.1800
Aurum - Gold	Au	0.0100
Barium	Ba	<.01
Berylium	Be	<0.01
Bismuth	Bi	< 0.01
Cadmium	Cd	<0.01
Cobalt	Co	< 0.01
Dysprosium	Dy	< 0.01
Erblum	Er	< 0.01
Europlum	Eu	<0.01
Gallium	Ga	<0.01
Gadollum	Gd	< 0.01
Hafnium	Hf	< 0.01
Holmium	Ho	< 0.01
Lanthium	La	< 0.01
Lutetium	Lu	< 0.01
Molybdenum	Mo	< 0.01
Niobium	Nb	< 0.01
Neodymium	Nd	< 0.01
Phosphorus	Р	<0.05
Plumbum - Lead	РЬ	<0.01
Pravseodymium	Pr	<0.01
Rubidium	RЬ	< 0.01
Rhenium	Re	< 0.01
Sulfate	S	<0.01
Antimony	Sb	<0.01
Selenium	Se	<0.01
Samarium	Sm	<0.01
Stranum	Sn	<0.01
Stromium	Sr	<0.01
Terbium	ТЬ	<0.01
Tellurium	Te	<0.01
Titanium	Ti	<0.01
Thallum	Tm	<0.01
Uranium	Ü	<0.01
Wolfram	Ÿ	< 0.01
Yttrium	Ÿ	<0.01 <0.01
Ytterbium	ÝЬ	<0.01
Zirconium	Zr	<0.01

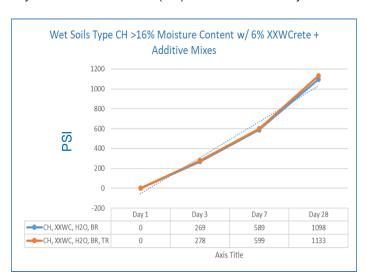
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# **Leachate Containment and PSI development**

The table (Left) displays the leach limits in ppm of a variety of toxic materials after a thirty-day exposure to the sulfuric acid leaching medium, which far exceeds the 18 hour acidic acid leaching exposure limits parameters of the standard TCLP testing, as required by the EPA. Note: RCRA 8 metals evaluated passed in subsequent testing in ppb. You will note the binding and containment of critical toxic leachates is extremely significant and greater than any other known current technology is able to achieve as of this publishing.



Dry Soils Moisture Content (MC) PSI Gain over 28 days



Wet Soils Moisture Content (MC) PSI Gain over 28 days





# **System Component**



TopR.O.C. Category:
Stabilization, toxic mine soils binder and containment as well as molding soils medium;
TopR.O.C. is used with Pro-SealECCO Nano-Crete® and /or Pro-SealECCO BedROC® in soils as specified.

# **Component Description:**

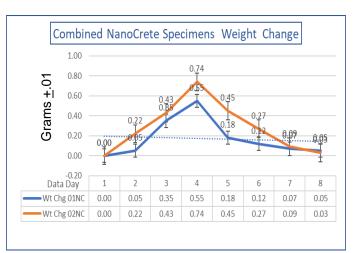
Pro-Seal*ECCO* TopR.O.C.® is a liquid surface densifying component as part of the patent pending Pro-Seal*ECCO*® rapid application landfill soils stabiliz-ation, containment, and soil molding systems. Pro-Seal-*ECCO* Top-R.O.C.®, applied properly with Pro-Seal-*ECCO* NanoCretes® and/or Pro-Seal*ECCO* XW-Cretes®, Pro-Seal*ECCO* BedR.O.C.'s® and soil, can bind in toxic leachates in soils, contains greywater, and low level radiation, PFAS, PFOS, or other toxic soil leachates.

Pro-Seal*ECCO* TopROC® when properly incorporated into the Pro-Seal*ECCO®* landfill soils stabilization, significantly enhances the systems ultimate performance over time. Pro-Seal® formulas are customized, by our labs, to the clients' soils, based in the clients' intended needs of those soils for both normalized moisture contents and high moisture content soils as demonstrated in the following two tables (top right).

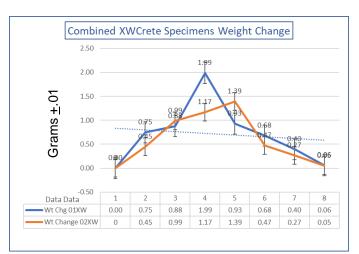
# **System Technical**

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

All results based on laboratory testing actual field application result may vary.



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



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

Tailings Specimens Tested as Follows: (modified tests)		
ASTM	Data	Value
C-67, Section 7	Decreased Absorption	Hydrophobic
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C-67, Section 7	Leaching Efflorescence	initial cure
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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







**Excavate Site** 



2. Grade To Slope and Drain



3. Wet To spec'd Moisture Content



Spread Pro-Seal ECCO NanoCrete®



5. In Situ reclaim into soil Pro-Seal ECCO Nano Crete® & Pro-SealECCO BedR.O.C. the Pro-SealECCO Secondary Containment barrier



6. Re-grade To Slope and Drain as needed



7. Back Drag or Box Blade for Initial Compression



8. Drum Roll Flats and Slopes for Deep Compression



9. Pneumatic Roll for Surface Densifying Compression



10. Spread Pro-SealECCO TopR.O.C.



11. Spread Pro-SealECCO FlexSystem II® **Primary Containment Barrier** 

Above: Typical eleven step application of the Pro-Seal ECCO Nano Novel Matrix® secondary containment semi-structural leachate binding soil additives and the primary seamless, monolithic, elastomeric, containment barrier Pro-Seal ECCO FlexSystem II<sup>®</sup>. Contact technical for your specific site needs.

#### **Call Technical:**

Toll Free USA/CND: 800 349 7325 International: +1 520 349 7325

Email: technical@prosealproducts.com





# **System Component**



Seamless Monolithic, Elastomeric, Pro-SealECCO FlexSystem II $^{\boxtimes}$  Primary Containment Over Pro-SealECCO NanoCrete Stabilized Secondary Containment.

**Pro-Seal FlexSystem II** <sup>®</sup> greywater, contaminant fluid, methane barrier and waterproofing/management primary containment system is a liquid membrane. It is a single component material forming a seamless, flexible, elastomeric, monolithic barrier containment/management system as applied over Pro-Seal*ECCO*<sup>®</sup> semi-structural soils stabilization system. The ProSeal*ECCO* System<sup>®</sup> upon proper in-stalllation of all components is a primary and secondary containment system.

# **Application**

Spray or spreader apply Pro-Seal*ECCO* FlexSystem II® over a cured 14 day minimum Pro-Seal*ECCO*® semi to structurally stabilized soil surface, which has been compaction rolled to a smooth compressed finished surface, ready to accept the Pro-Seal FlexSystem II ® monolithic, seamless, elastomeric, barrier material.

- May be used on vertical, overhead, or horizontal applications
- Multiple coats are applied with no peeling, if applied in more than six hours and less than 12 hours between coats.
- Tough, durable, seamless, monolithic, and flexible with zero perms (.0004).
- Low V.O.C. to NO V.OC.
- Environmentally friendly

**Caution:** Store containers of this material out of heat and sunlight. Applied material may be exposed to sunlight at 70°F / 21°C for not to exceed 120 days.

# **System Technical**

Information	Value
Material	1 part
Mix time	None
Appearance	Liquid
V.O.C. content	20 grams/liter
Flash point	150°F
Service temperature	>-70°F to 175°F
Cure time recoat	6-12 hours
Cure time complete	96 hours
Stain resistance	Very Good
Weight	9.2 lbs./ gallon
Shelf life	6 months when stored properly
Spread rate	30 mils @50 ft²/ gal
Packaging:	5 or 55 gallons

#### **Chemical Resistance**

ASTM D 2299 (in laminated system contact surface to contaminants)		
Cured material	Rating	
Alkalize spillage/splash	Very Good	
Methane, Radon (in FS II System only)	Excellent	
Solvents spillage/splash (In FS II System only)	Excellent	
Salt fumes (in FS II System only)	Very Good	
Salt spillage/splash	Excellent	
Water spillage/splash	Excellent	
Water constant immersion 48 hours max	Excellent	

# Specifications (Component of System)

ASTM/Test	Data	Value
D 154	Resistance to decay	No surface defects
D 412-98	Elongation	700% ± 10
D 412-98	Recovery	98% ± 2 4 groups tested
D 412-98	Tensile strength	436 psi ( 3.0 n/mm²)
D 751-00	Hydrostatic pressure resistance	94 psi ( 3.38 n/mm²)
D 903-98	Adhesion to concrete	19 psi (3.38 kg/cm) No peel/film break
D 2240-97	Shore hardness	35 ± 5 A
D 2369-98	Solids content	86% ± 2 weight 80% ± 2 volume
E 96-00 Procedure B	Water vapor transmission (in System)	<.0004perms
Brookfield viscometer	Viscosity	250 cps ± 50

All results based on laboratory testing actual field application result may vary.



# **Contractor Training and Authorization**

To become an authorized applicator of Pro-Seal® Products Systems and materials attend Pro-Seal University™. Learn about a variety of unique Nano tech materials users may apply in adverse environments and save time and labor. For more information contact Pro-Seal® Products Technical Department.

# **Drawings, Design and Guide Instructions**

The drawings contained herein these pages are (not to scale). The viewer of the drawings understands they are not precision and are not site specific "as applied" drawings. These drawings are likenesses meant to convey the concept, idea, and methods of potential use and application of the Pro-Seal ECCO® containment system, a combined primary and secondary containment system for landfills. Actual design layup and applied methodology, of the installation of the system, will be created by the specifying party. The manufacturer's technical department will review, for manufacturer's approval of final design, when a client requests a manufacturer's warranty.

The manufacturer offers guide specifications and guide sketches, not project or site specific. Said information and information contained herein, is strictly a guide to convey design concept, layup concept, and use concept.

If you have a project in mind that requires, design, please see contacts and contact information, bottom right.

# Compliance:

# Contains and/or Binds In:

- **ESG Guidelines Compliant**
- GO Green Certified
- Red Line Certified
- **NSF** Certified
- LEED Compliant
- **EPA Compliant**

- Landfill
- Toxic Dust
- Soil Leachates
- o Fly Ash
- Semi Structural Soil Stabilization
- Low Level Radiation

### **Cautions:**

Keep out of reach of children. May cause skin or eye irritation. This product may be harmful if swallowed. Do not induce vomiting. Use in well ventilated areas. Contact a physician im-mediately and always seek a physician's advice regarding first aid. Use only in commercial or industrial applications. Use only on intended surfaces specific application uses. See material safety data sheet for additional cautions.

# **Limited Warranty:**

We warrant our product to be free of defects in material and workmanship; and to be in accordance with our company quality control standards. All data, statements, and recommendations made herein are based upon information we believe to be dependable. Said content herein these pages is-made-available , without any representation, guarantee, or warranty of accuracy. Pro-Seal's products are-sold-on the condition that the user will evaluate them, as well as our recommendations, to determine their suitability for the user's own purpose before adoption.

Statements made by any persons regarding the use of our products or processes are not recommendations for their use in violation of any patent rights or in violation of any applicable laws or regulations. Liability under any condition shall-be-limited to, replacement of material only. No statement claim verbal, written, paper medium, electronic medium or any other known or unknown medium made by independent representation, dealers, distributors or any third parties whatsoever that are not in written form, nor authored and/or distributed by from the manufacturer, shall not be the responsibility nor liability of the manufacturer.

# Communication With Pro-Seal® Products Is Easy!

- We love our clients!
- We love customer service!

#### Contact:

## Jim Griffin Global Team Leader

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#### Jeff Elser National Sales Manager

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#### Tim Lindor Head of Technical

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# Protecting Our Groundwater, Protects Our Food Sources

Let's Walk into Tomorrow Together, Making a Difference
We Must Now Work Together for Our Better Future
Together Let's Take a Stand for a Brighter Day
Building Today, for Our Children's Tomorrows
Let's make a Green, Low Carbon Footprint, Future

**Tomorrows Nano Novel Matrix World Today** 



# Above, Dirt, Pro-Seal ECCO® Semi-Structurally Stabilized

- ESG Guidelines Compliant
- GO Green Certified Compliant
- Red Line Certified Compliant
- NSF Certified Compliant
- USEPA Compliant
- USFDA Compliant

- Contains RCRA 8 Metals
   Newest ppb Requirements
- USACE ASTM Compliant
- LARR Compliant
- CSI Compliant
- LEED Compliant

