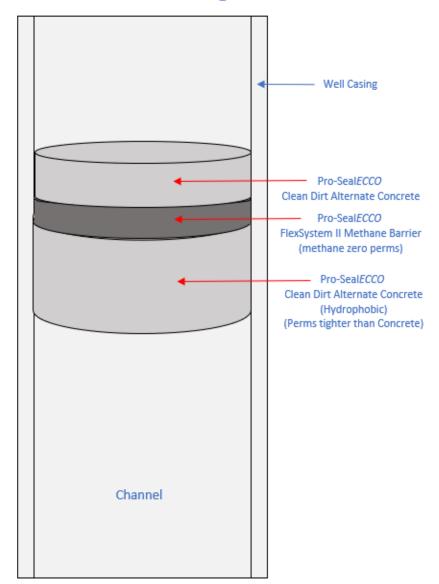
Pro-SealECCO Abandoned Oil Well Seal Cap



Abandoned Oil Well Closure Sealing



This system is composed of green materials that greatly reduce the carbon footprint:

- Pro-SealECCO is custom formulated to crete a concrete like material from site soils.
- Reduces harvest of rock, and other materials from remote quarries.
- Reduces haul ins and haul outs.
- Reduces diesel or gas powered equipment operational times.

A Classic Belt and Suspenders Approach

Pro-SealECCO clean dirt alternate to concrete is expansive, high PSI and low perms as well as hydrophobic.

Pro-Seal FlexSystem II is stand-alone qualified methane barrier LARR# 26015 and CSI# 07130.

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		



Image Left:

Impermeable, Its hydrophobic this Specimen has been submerged since 2014. No water has penetrated the surface, and no breakdown has occurred.

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Site dirt treated with Pro-SealECCO Additive = alternate concrete

ASTM	Test	Data (Typical)	
ASTM C 109		1 day	6,250	
	Compressive Strength	7 days	11,440	
	(psi)	28 Days	12,600	
	Tamasila	24 hrs.	390	
	Tensile	7 days	780	
	(psi)	28 days	1,280	
	C-t-Ti	Initial 1 minute		
ASTM C 266	Set Time	Final 3 minutes		
CSA A 23.2-6B	Tensile Pull (psi)	Final	409	
USACE CRD-C62	1			
	Platicity	Passed		
	Fluidity: plastic water	3 days	+ 0.02	
	content 6 pints flow:100	14 days	+ 0.01	
Aterberg Limits	seconds expansion	28 days	+ 0.01	
	Compressive Strength	1 day	6,000	
		3 days	8,000	
	(psi)	7 days	10,000	
	(531)	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	
		1 day	6,500	
	Compressive Strength	3 days	8,000	
	(psi)	7 days	10,000	
	1,5-7	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	
	Compressive Strength	1 day	4,500	
		3 days	7,000	
	(psi)	7 days	8,500	
	(1)	28 Days	10,000	
	Shrinkage	Zero		
	Absorption	Hydrophobic		
	Strikes	>	> 20	



Site Native Soil treated with Pro-Seal ECCO additive = alternate concrete.

Plug 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 site soils are mixed with Pro-Seal*ECCO* NanoCrete and Pro-Seal*ECCO* XWCretes

The Highlights:

A unique long lifecycle solution, that is service life cost effective. Pro-Seal*ECCO* Plug system is a unique, one-of-a-kind, patent pending Nano Novel Matrix material that can develop high PSI, with controlled set times and initial rapid cure formulations. The system is hydrophobic and is methane impervious. The Pro-Seal*ECCO* system gains these exceptional properties due to its ability to gain billions more reaction points in the same footprint. This material is the only material that can contain and encapsulate RCRA 8 metals as well as PFOS and PFAS in soils.

The system is custom designed to sight soils for the greatest possible environment positive impact and product performance. The system is green, easy to install, and generates great PR for your project.



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