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Quality Erosion Control Products

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General Mixing / Capacities Reference Chart

Soil Guard 50 lbs. Bags	Water Gallons	Water (liters)	Mixture Volume		Ground Coverage based on 3000lbs./Acre Rate			
			Gals.	(liters)	Sq. Feet	(Sq. meters)	Acres	(hectares)
1	100	(378.54)	108	(408.82)	725	(67.35)	0.017	(0.007)
2	200	(757.08)	216	(817.65)	1,450	(134.71)	0.033	(0.013)
3	300	(1,135.62)	324	(1,226.47)	2,175	(202.06)	0.050	(0.020)
4	400	(1,514.16)	432	(1,635.30)	2,900	(269.41)	0.067	(0.027)
5	500	(1,892.71)	540	(2,044.12)	3,625	(336.76)	0.083	(0.034)
6	600	(2,271.25)	648	(2,452.95)	4,350	(404.12)	0.100	(0.040)
7	700	(2,649.79)	756	(2,861.77)	5,075	(471.47)	0.116	(0.047)
8	800	(3,028.33)	864	(3,270.59)	5,800	(538.82)	0.133	(0.054)
9	900	(3,406.87)	972	(3,679.42)	6,525	(606.17)	0.150	(0.061)
10	1,000	(3,785.41)	1,080	(4,088.24)	7,250	(673.53)	0.166	(0.067)
11	1,100	(4,163.95)	1,188	(4,497.06)	7,975	(740.88)	0.183	(0.074)
12	1,200	(4,542.49)	1,296	(4,905.89)	8,700	(808.23)	0.200	(0.081)
13	1,300	(4,921.03)	1,404	(5,314.72)	9,425	(875.58)	0.216	(0.088)
14	1,400	(5,299.57)	1,512	(5,723.54)	10,150	(942.94)	0.233	(0.094)
15	1,500	(5,678.12)	1,620	(6,132.36)	10,875	(1,010.29)	0.250	(0.101)
16	1,600	(6,056.66)	1,728	(6,541.19)	11,600	(1,077.64)	0.266	(0.108)
17	1,700	(6,435.20)	1,836	(6,950.01)	12,325	(1,144.99)	0.283	(0.115)
18	1,800	(6,813.74)	1,944	(7,358.84)	13,050	(1,212.35)	0.300	(0.121)
19	1,900	(7,192.28)	2,052	(7,767.66)	13,775	(1,279.70)	0.316	(0.128)
20	2,000	(7,570.82)	2,160	(8,176.49)	14,500	(1,347.05)	0.333	(0.135)
21	2,100	(7,949.36)	2,268	(8,585.31)	15,225	(1,414.40)	0.350	(0.141)
22	2,200	(8,327.90)	2,376	(8,994.13)	15,950	(1,481.76)	0.366	(0.148)
23	2,300	(8,706.44)	2,484	(9,402.96)	16,675	(1,549.11)	0.383	(0.155)
24	2,400	(9,084.98)	2,592	(9,811.78)	17,400	(1,616.46)	0.400	(0.162)
25	2,500	(9,463.53)	2,700	(10,220.61)	18,125	(1,683.81)	0.417	(0.169)
26	2,600	(9,842.07)	2,808	(10,629.43)	18,850	(1,751.16)	0.433	(0.175)
27	2,700	(10,220.61)	2,916	(11,038.26)	19,575	(1,818.51)	0.450	(0.182)
28	2,800	(10,599.15)	3,024	(11,447.08)	20,300	(1,885.86)	0.467	(0.189)
29	2,900	(10,977.69)	3,132	(11,855.90)	21,025	(1,953.21)	0.483	(0.196)
30	3,000	(11,356.23)	3,240	(12,264.73)	21,750	(2,020.56)	0.500	(0.202)

Height (in inches) Measured From Top Of Tank

Bags of Soil Guard	Mix Volume (gal)	Finn T60	Finn T90	Finn T120	Finn T170	Finn T280	Finn T330	Bowie 500	Bowie 800	Bowie 1100	Bowie 1500	Bowie 2500	Bowie 3000
1	108	26.0	32.0					25.5	35.0				
2	216	21.0	27.0					7.5	31.0				
3	324	15.0	24.0					9.5	25.5	28.0			
4	432	8.5	19.0	27.0	32.0			5.5	21.0	24.0	29.5		
5	540	3.5	15.0	23.0	29.0			1.0	16.0	19.5	26.0		
6	642		10.0	15.0	25.0				11.0	15.0	23.5		
7	756		6.0	12.0	22.5	37.5			4.5	11.0	21.0	34.0	
8	864		2.0	9.5	21.0	36.5			1.0	8.0	19.0	33.0	
9	972			7.0	18.5	34.5				4.0	17.0	31.0	
10	1020			3.5	16.0	32.0	35.0			2.0	15.5	28.5	35.5
11	1188				13.0	29.5	33.0				13.0	26.0	33.0
12	1296				10.0	28.5	31.6				10.0	24.5	31.5
13	1404				8.5	27.0	30.0				7.5	23.0	30.0
14	1512				6.0	25.0	28.5				4.5	21.0	28.0
15	1620				4.0	32.5	27.0				2.0	19.5	25.5
16	1728					20.0	25.5					16.5	24.0
17	1836					17.0	24.0					14.5	22.0
18	1944					15.0	22.5					12.5	21.0
19	2052					14.0	21.0					10.5	18.0
20	2160					12.5	18.5					9.0	16.5
21	2268					10.0	17.0					7.0	15.0
22	2376					7.0	15.5					5.0	13.0
23	2484					5.5	14.0					3.5	10.5
24	2592					4.0	12.0					2.0	9.5
25	2700					2.5	10.0					0.0	7.5
26	2808						8.5						6.0
27	2916						6.5						4.5
28	3024						4.0						3.0
29	3132						2.5						1.5
30	3240						1.0						0.0

- START UP PROCEDURE: Pre-mixing:- Purge with clear water - pump, pipe, boom and hose.**
- Consult chart to determine number of Soil Guard bags required to cover job site or to mix desired volume.**
- Position required bags on top of hydraulic seeding machine. Prepare for loading by opening bag ends.**
- Fill machine with sufficient water to reach level of main agitator shaft.**
- Start mixing agitators and regulate throttle throughout loading process to achieve *MODERATE* agitation. DO NOT engage recirculation systems (FINN).**
- Add seed and fertilizer to tank (unless applying Soil Guard to preseeded site.)**
- Load Soil Guard through Bowie bale breaker. Load through Finn loading hatch - forward and reverse paddles to break up any lumps. Each bag contains a water soluble packet of activator that requires no handling. Simply let the packet fall into the tank during loading.**
- FINN/BOWIE: Continue adding water to correct depth for number of bags and agitate at *MODERATE* Throttle.**
- BOWIE: After correct water depth has been reached, advance throttle to *FULL* for 15 - 30 seconds, to remove any dry spots, then return throttle to *MODERATE*.**
- Agitate slurry on *MODERATE* throttle for a minimum of ten minutes after loading to allow thickening. Perform the "Free Liquid" test to ensure suitability of slurry for application.**
- Apply slurry in even layers, working back and forth, for uniform coverage of soil. For best results, fit hose or cannon with a fan or slit-type nozzle to create a gentle and finely dispersed spray that "rains down" on soil.**