



EarthGuard (Liquid) Fiber Matrix Loading Chart & Application Guide

Use the following procedure to determine how much EarthGuard and fiber are required for your project.

Determine Site Specific Application Rates:

Determine the recommended application rate based on anticipated rainfall and slope steepness.

EarthGuard Fiber Matrix Recommended Application Rates

Chart 1: Normal Conditions⁺

Maximum Rainfall of $\leq 20"$ (480 mm)

SLOPE	6:1	5:1	4:1	3:1	2:1	1.5:1	1:1
EARTHGUARD (gals/acre)	4	5	6	7	8	9	10
Fiber (lb/acre)	1,500	1,500	1,500	1,800	2,000	2,500	3,000

Chart 2: Severe Conditions⁺

Maximum Rainfall of $> 20"$ (480 mm)

SLOPE	$\leq 5:1$	4:1	$\geq 3:1$
EARTHGUARD (gals/acre)	6	8	10
MULCH (lb/acre)	2,000	2,500	3,000

+ SOME SITUATIONS WITH: SANDY-SANDY LOAM SOILS, VERY LITTLE ORGANIC MATTER IN THE SOIL, POORLY COMPACTED SLOPES, HEAVY RAINFALL LOCATIONS (OVER 19 INCHES PER YEAR), VERY INTENSE RAIN STORMS (2-3 INCHES AT A TIME), HIGH WIND EXPOSURE, ETC. MAY REQUIRE INCREASING THE EARTHGUARD AND/OR FIBER RATES.

Determine Loading Rates:

Based on recommended application rate from either Chart 1 or Chart 2, go to the following pages to determine amount of fiber and EarthGuard need based on the size of area you need to cover. If you need to load a full tank, please load your tank with the number of bags you usually load and add in the appropriate amount of EarthGuard and then spray the recommended area.



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Example 1: Your customer has a project where they want to apply EarthGuard Fiber Matrix and they need it to last long enough to handle up to 20" of rain. The 2:1 slope has an area of 5,450 sq ft. How much EarthGuard and hydromulch do you need for the job?

Solution: To find the appropriate amount of EarthGuard and fiber, go to Chart 1 and under a 2:1 slope, please note that you will be required to load 1 gallon of EarthGuard and 5 bags of hydromulch.

Example 2: You have large 2:1 slope that will take several loads and you have a 3000 gal hydroseeder that you typically load 24 bags of hydromulch in a full load. Your customer needs the product to last long enough to handle up to 20" rain. How much EarthGuard do you need and how area can you spray in 1 tank load?

To find the appropriate amount of EarthGuard and application area, go to Chart 1 and under "Typical Hydroseeder Tank Sizes" scroll down to 3000 and then across to a 2:1 slope. Please note that it says you need to load 4.8 gallons of EarthGuard and that you should spray 26,140 sq ft (0.60 ac).

Loading Instructions:

- 1) Fill vessel to at least 1/3 capacity (high enough to cover agitators).
- 2) Turn on agitators and adjust to $\frac{3}{4}$ speed in reverse.
- 3) Continue to fill vessel with water and slowly add the EarthGuard while agitators are in motion.
- 4) Once the accurate amount of EarthGuard is in solution, add seed (if specified), compost (if specified), fertilizer (if specified) and pre-emergent (if specified). Continue to mix tank a minimum of 10 minutes prior to application.
- 5) If the hydroseeding unit has separate pump and agitator controls (example: Finns), minimize agitator speed once the slurry is completely mixed and before application. This will help increase application rate.



EarthGuard (Liquid) Fiber Matrix Loading Chart: Normal Conditions Maximum Rainfall of < 20"

EarthGuard (Liquid) Fiber Matrix Loading Chart: Normal Conditions Maximum Rainfall of < 20"																							
Typical Hydroseeder Tank Sizes (gal)	Slope		≤6:1			5:1			4:1			3:1			2:1			1½:1			1:1		
	Fiber Loaded		EarthGuard	Coverage		EarthGuard	Coverage		EarthGuard	Coverage		EarthGuard	Coverage		EarthGuard	Coverage		EarthGuard	Coverage		EarthGuard	Coverage	
	50 lb bags	(lb)	gallons	(sq ft)	(ac)	gallons	(sq ft)	(ac)	gallons	(sq ft)	(ac)	gallons	(sq ft)	(ac)	gallons	(sq ft)	(ac)	gallons	(sq ft)	(ac)	gallons	(sq ft)	(ac)
250	2	100	0.3	2,900	0.07	0.3	2,900	0.07	0.4	2,900	0.07	0.4	2,420	0.06	0.4	2,180	0.05	0.4	1,740	0.04	0.3	1,450	0.03
	----	3	150	0.4	4,360	0.10	0.5	4,360	0.10	0.6	4,360	0.10	0.6	3,630	0.08	0.6	3,270	0.08	0.5	2,610	0.06	0.5	2,180
500	4	200	0.5	5,810	0.13	0.7	5,810	0.13	0.8	5,810	0.13	0.8	4,840	0.11	0.8	4,360	0.10	0.7	3,480	0.08	0.7	2,900	0.07
	----	5	250	0.7	7,260	0.17	0.8	7,260	0.17	1.0	7,260	0.17	1.0	6,050	0.14	1.0	5,450	0.13	0.9	4,360	0.10	0.8	3,630
750	6	300	0.8	8,710	0.20	1.0	8,710	0.20	1.2	8,710	0.20	1.2	7,260	0.17	1.2	6,530	0.15	1.1	5,230	0.12	1.0	4,360	0.10
	----	7	350	0.9	10,160	0.23	1.2	10,160	0.23	1.4	10,160	0.23	1.4	8,470	0.19	1.4	7,620	0.17	1.3	6,100	0.14	1.2	5,080
1000	8	400	1.1	11,620	0.27	1.3	11,620	0.27	1.6	11,620	0.27	1.6	9,680	0.22	1.6	8,710	0.20	1.4	6,970	0.16	1.3	5,810	0.13
	----	9	450	1.2	13,070	0.30	1.5	13,070	0.30	1.8	13,070	0.30	1.8	10,890	0.25	1.8	9,800	0.22	1.6	7,840	0.18	1.5	6,530
----	10	500	1.3	14,520	0.33	1.7	14,520	0.33	2.0	14,520	0.33	2.0	12,100	0.28	2.0	10,890	0.25	1.8	8,710	0.20	1.7	7,260	0.17
----	11	550	1.5	15,970	0.37	1.8	15,970	0.37	2.2	15,970	0.37	2.2	13,310	0.31	2.2	11,980	0.28	2.0	9,580	0.22	1.8	7,990	0.18
1500	12	600	1.6	17,420	0.40	2.0	17,420	0.40	2.4	17,420	0.40	2.3	14,520	0.33	2.4	13,070	0.30	2.2	10,450	0.24	2.0	8,710	0.20
	----	13	650	1.7	18,880	0.43	2.2	18,880	0.43	2.6	18,880	0.43	2.5	15,730	0.36	2.6	14,160	0.33	2.3	11,330	0.26	2.2	9,440
----	14	700	1.9	20,330	0.47	2.3	20,330	0.47	2.8	20,330	0.47	2.7	16,940	0.39	2.8	15,250	0.35	2.5	12,200	0.28	2.3	10,160	0.23
----	15	750	2.0	21,780	0.50	2.5	21,780	0.50	3.0	21,780	0.50	2.9	18,150	0.42	3.0	16,340	0.38	2.7	13,070	0.30	2.5	10,890	0.25
----	16	800	2.1	23,230	0.53	2.7	23,230	0.53	3.2	23,230	0.53	3.1	19,360	0.44	3.2	17,420	0.40	2.9	13,940	0.32	2.7	11,620	0.27
----	17	850	2.3	24,680	0.57	2.8	24,680	0.57	3.4	24,680	0.57	3.3	20,570	0.47	3.4	18,510	0.42	3.1	14,810	0.34	2.8	12,340	0.28
----	18	900	2.4	26,140	0.60	3.0	26,140	0.60	3.6	26,140	0.60	3.5	21,780	0.50	3.6	19,600	0.45	3.2	15,680	0.36	3.0	13,070	0.30
----	19	950	2.5	27,590	0.63	3.2	27,590	0.63	3.8	27,590	0.63	3.7	22,990	0.53	3.8	20,690	0.47	3.4	16,550	0.38	3.2	13,790	0.32
2500	20	1000	2.7	29,040	0.67	3.3	29,040	0.67	4.0	29,040	0.67	3.9	24,200	0.56	4.0	21,780	0.50	3.6	17,420	0.40	3.3	14,520	0.33
	----	21	1050	2.8	30,490	0.70	3.5	30,490	0.70	4.2	30,490	0.70	4.1	25,410	0.58	4.2	22,870	0.53	3.8	18,300	0.42	3.5	15,250
----	22	1100	2.9	31,940	0.73	3.7	31,940	0.73	4.4	31,940	0.73	4.3	26,620	0.61	4.4	23,960	0.55	4.0	19,170	0.44	3.7	15,970	0.37
----	23	1150	3.1	33,400	0.77	3.8	33,400	0.77	4.6	33,400	0.77	4.5	27,830	0.64	4.6	25,050	0.58	4.1	20,040	0.46	3.8	16,700	0.38
3000	24	1200	3.2	34,850	0.80	4.0	34,850	0.80	4.8	34,850	0.80	4.7	29,040	0.67	4.8	26,140	0.60	4.3	20,910	0.48	4.0	17,420	0.40
	----	25	1250	3.3	36,300	0.83	4.2	36,300	0.83	5.0	36,300	0.83	4.9	30,250	0.69	5.0	27,230	0.63	4.5	21,780	0.50	4.2	18,150
----	26	1300	3.5	37,750	0.87	4.3	37,750	0.87	5.2	37,750	0.87	5.1	31,460	0.72	5.2	28,310	0.65	4.7	22,650	0.52	4.3	18,880	0.43
----	27	1350	3.6	39,200	0.90	4.5	39,200	0.90	5.4	39,200	0.90	5.3	32,670	0.75	5.4	29,400	0.67	4.9	23,520	0.54	4.5	19,600	0.45
3500	28	1400	3.7	40,660	0.93	4.7	40,660	0.93	5.6	40,660	0.93	5.4	33,880	0.78	5.6	30,490	0.70	5.0	24,390	0.56	4.7	20,330	0.47
	----	29	1450	3.9	42,110	0.97	4.8	42,110	0.97	5.8	42,110	0.97	5.6	35,090	0.81	5.8	31,580	0.72	5.2	25,260	0.58	4.8	21,050
----	30	1500	4.0	43,560	1.00	5.0	43,560	1.00	6.0	43,560	1.00	5.8	36,300	0.83	6.0	32,670	0.75	5.4	26,140	0.60	5.0	21,780	0.50
----	31	1550	4.1	45,010	1.03	5.17	45,010	1.03	6.20	45,010	1.03	6.03	37,510	0.86	6.20	33,760	0.78	5.58	27,010	0.62	5.17	22,510	0.52
4000	32	1600	4.3	46,460	1.07	5.33	46,460	1.07	6.40	46,460	1.07	6.22	38,720	0.89	6.40	34,850	0.80	5.76	27,880	0.64	5.33	23,230	0.53
	----	33	1650	4.4	47,920	1.10	5.50	47,920	1.10	6.60	47,920	1.10	6.42	39,930	0.92	6.60	35,940	0.83	5.94	28,750	0.66	5.50	23,960
----	34	1700	4.5	49,370	1.13	5.67	49,370	1.13	6.80	49,370	1.13	6.61	41,140	0.94	6.80	37,030	0.85	6.12	29,620	0.68	5.67	24,680	0.57
----	35	1750	4.7	50,820	1.17	5.83	50,820	1.17	7.00	50,820	1.17	6.81	42,350	0.97	7.00	38,120	0.88	6.30	30,490	0.70	5.83	25,410	0.58
----	36	1800	4.8	52,270	1.20	6.00	52,270	1.20	7.20	52,270	1.20	7.00	43,560	1.00	7.20	39,200	0.90	6.48	31,360	0.72	6.00	26,140	0.60
----	37	1850	4.9	53,720	1.23	6.17	53,720	1.23	7.40	53,720	1.23	7.19	44,770	1.03	7.40	40,290	0.92	6.66	32,230	0.74	6.17	26,860	0.62
----	38	1900	5.1	55,180	1.27	6.33	55,180	1.27	7.60	55,180	1.27	7.39	45,980	1.06	7.60	41,380	0.95	6.84	33,110	0.76	6.33	27,590	0.63
----	39	1950	5.2	56,630	1.30	6.50	56,630	1.30	7.80	56,630	1.30	7.58	47,190	1.08	7.80	42,470	0.97	7.02	33,980	0.78	6.50	28,310	0.65
----	40	2000	5.3	58,080	1.33	6.67	58,080	1.33	8.00	58,080	1.33	7.78	48,400	1.11	8.00	43,560	1.00	7.20	34,850	0.80	6.67	29,040	0.67



Severe Conditions Maximum Rainfall of > 20"



Typical Hydroseeder Tank Sizes (gal)	EarthGuard (Liquid) Fiber Matrix Loading Chart: Severe Conditions Maximum Rainfall of > 20"										
	Slope		≤ 5:1			4:1			≥ 3:1		
	Fiber		EarthGuard	Coverage		EarthGuard	Coverage		EarthGuard	Coverage	
	(50 lb bags)	(lb)	gallons	(sq ft)	(ac)	gallons	(sq ft)	(ac)	gallons	(sq ft)	(ac)
250	2	100	0.3	2,180	0.05	0.3	1,740	0.04	0.3	1,450	0.03
----	3	150	0.5	3,270	0.08	0.5	2,610	0.06	0.5	2,180	0.05
500	4	200	0.6	4,360	0.10	0.6	3,480	0.08	0.7	2,900	0.07
----	5	250	0.8	5,450	0.13	0.8	4,360	0.10	0.8	3,630	0.08
750	6	300	0.9	6,530	0.15	1.0	5,230	0.12	1.0	4,360	0.10
----	7	350	1.1	7,620	0.17	1.1	6,100	0.14	1.2	5,080	0.12
1000	8	400	1.2	8,710	0.20	1.3	6,970	0.16	1.3	5,810	0.13
----	9	450	1.4	9,800	0.22	1.4	7,840	0.18	1.5	6,530	0.15
----	10	500	1.5	10,890	0.25	1.6	8,710	0.20	1.7	7,260	0.17
----	11	550	1.7	11,980	0.28	1.8	9,580	0.22	1.8	7,990	0.18
1500	12	600	1.8	13,070	0.30	1.9	10,450	0.24	2.0	8,710	0.20
----	13	650	2.0	14,160	0.33	2.1	11,330	0.26	2.2	9,440	0.22
----	14	700	2.1	15,250	0.35	2.2	12,200	0.28	2.3	10,160	0.23
----	15	750	2.3	16,340	0.38	2.4	13,070	0.30	2.5	10,890	0.25
----	16	800	2.4	17,420	0.40	2.6	13,940	0.32	2.7	11,620	0.27
----	17	850	2.6	18,510	0.42	2.7	14,810	0.34	2.8	12,340	0.28
----	18	900	2.7	19,600	0.45	2.9	15,680	0.36	3.0	13,070	0.30
----	19	950	2.9	20,690	0.47	3.0	16,550	0.38	3.2	13,790	0.32
2500	20	1000	3.0	21,780	0.50	3.2	17,420	0.40	3.3	14,520	0.33
----	21	1050	3.2	22,870	0.53	3.4	18,300	0.42	3.5	15,250	0.35
----	22	1100	3.3	23,960	0.55	3.5	19,170	0.44	3.7	15,970	0.37
----	23	1150	3.5	25,050	0.58	3.7	20,040	0.46	3.8	16,700	0.38
3000	24	1200	3.6	26,140	0.60	3.8	20,910	0.48	4.0	17,420	0.40
----	25	1250	3.8	27,230	0.63	4.0	21,780	0.50	4.2	18,150	0.42
----	26	1300	3.9	28,310	0.65	4.2	22,650	0.52	4.3	18,880	0.43
----	27	1350	4.1	29,400	0.67	4.3	23,520	0.54	4.5	19,600	0.45
3500	28	1400	4.2	30,490	0.70	4.5	24,390	0.56	4.7	20,330	0.47
----	29	1450	4.4	31,580	0.72	4.6	25,260	0.58	4.8	21,050	0.48
----	30	1500	4.5	32,670	0.75	4.8	26,140	0.60	5.0	21,780	0.50
----	31	1550	4.7	33,760	0.78	4.96	27,010	0.62	5.17	22,510	0.52
4000	32	1600	4.8	34,850	0.80	5.12	27,880	0.64	5.33	23,230	0.53
----	33	1650	5.0	35,940	0.83	5.28	28,750	0.66	5.50	23,960	0.55
----	34	1700	5.1	37,030	0.85	5.44	29,620	0.68	5.67	24,680	0.57
----	35	1750	5.3	38,120	0.88	5.60	30,490	0.70	5.83	25,410	0.58
----	36	1800	5.4	39,200	0.90	5.76	31,360	0.72	6.00	26,140	0.60
----	37	1850	5.6	40,290	0.92	5.92	32,230	0.74	6.17	26,860	0.62
----	38	1900	5.7	41,380	0.95	6.08	33,110	0.76	6.33	27,590	0.63
----	39	1950	5.9	42,470	0.97	6.24	33,980	0.78	6.50	28,310	0.65
----	40	2000	6.0	43,560	1.00	6.40	34,850	0.80	6.67	29,040	0.67