



EarthGuard (Pre-Packaged) 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 (Pre-Packaged) Fiber Matrix⁺

Maximum Rainfall of $\leq 20''$					
SLOPE	$\leq 4:1$	3:1	2:1	1½: to 1	1 to 1
Pre-Packaged (lb/acre)	1,500	1,800	2,000	2,500	3,000

Maximum Rainfall of $> 20''$			
SLOPE	$\leq 5:1$	4:1	$\geq 3:1$
Pre-Packaged (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.

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 5 bags of EarthGuard Fiber Matrix.



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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 24 bags of EarthGuard Fiber Matrix 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.



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EarthGuard (Pre-Packaged) Fiber Matrix Loading Chart: Normal Conditions

EarthGuard (Pre-Packaged) Fiber Matrix Loading Chart: Normal Conditions Maximum Rainfall of < 20"																
Typical Hydroseeder	Slope		≤6:1		5:1		4:1		3:1		2:1		1½:1		1:1	
	EarthGuard Fiber Matrix		Coverage		Coverage		Coverage		Coverage		Coverage		Coverage		Coverage	
	Tank Sizes (gal)	(50 lb bags)	(lb)	(sq ft)	(ac)	(sq ft)	(ac)	(sq ft)	(ac)	(sq ft)	(ac)	(sq ft)	(ac)	(sq ft)	(ac)	(sq ft)
250	2	100	2,900	0.07	2,900	0.07	2,900	0.07	2,420	0.06	2,180	0.05	1,740	0.04	1,450	0.03
----	3	150	4,360	0.10	4,360	0.10	4,360	0.10	3,630	0.08	3,270	0.08	2,610	0.06	2,180	0.05
500	4	200	5,810	0.13	5,810	0.13	5,810	0.13	4,840	0.11	4,360	0.10	3,480	0.08	2,900	0.07
----	5	250	7,260	0.17	7,260	0.17	7,260	0.17	6,050	0.14	5,450	0.13	4,360	0.10	3,630	0.08
750	6	300	8,710	0.20	8,710	0.20	8,710	0.20	7,260	0.17	6,530	0.15	5,230	0.12	4,360	0.10
----	7	350	10,160	0.23	10,160	0.23	10,160	0.23	8,470	0.19	7,620	0.17	6,100	0.14	5,080	0.12
1000	8	400	11,620	0.27	11,620	0.27	11,620	0.27	9,680	0.22	8,710	0.20	6,970	0.16	5,810	0.13
----	9	450	13,070	0.30	13,070	0.30	13,070	0.30	10,890	0.25	9,800	0.22	7,840	0.18	6,530	0.15
----	10	500	14,520	0.33	14,520	0.33	14,520	0.33	12,100	0.28	10,890	0.25	8,710	0.20	7,260	0.17
----	11	550	15,970	0.37	15,970	0.37	15,970	0.37	13,310	0.31	11,980	0.28	9,580	0.22	7,990	0.18
1500	12	600	17,420	0.40	17,420	0.40	17,420	0.40	14,520	0.33	13,070	0.30	10,450	0.24	8,710	0.20
----	13	650	18,880	0.43	18,880	0.43	18,880	0.43	15,730	0.36	14,160	0.33	11,330	0.26	9,440	0.22
----	14	700	20,330	0.47	20,330	0.47	20,330	0.47	16,940	0.39	15,250	0.35	12,200	0.28	10,160	0.23
----	15	750	21,780	0.50	21,780	0.50	21,780	0.50	18,150	0.42	16,340	0.38	13,070	0.30	10,890	0.25
----	16	800	23,230	0.53	23,230	0.53	23,230	0.53	19,360	0.44	17,420	0.40	13,940	0.32	11,620	0.27
----	17	850	24,680	0.57	24,680	0.57	24,680	0.57	20,570	0.47	18,510	0.42	14,810	0.34	12,340	0.28
----	18	900	26,140	0.60	26,140	0.60	26,140	0.60	21,780	0.50	19,600	0.45	15,680	0.36	13,070	0.30
----	19	950	27,590	0.63	27,590	0.63	27,590	0.63	22,990	0.53	20,690	0.47	16,550	0.38	13,790	0.32
2500	20	1000	29,040	0.67	29,040	0.67	29,040	0.67	24,200	0.56	21,780	0.50	17,420	0.40	14,520	0.33
----	21	1050	30,490	0.70	30,490	0.70	30,490	0.70	25,410	0.58	22,870	0.53	18,300	0.42	15,250	0.35
----	22	1100	31,940	0.73	31,940	0.73	31,940	0.73	26,620	0.61	23,960	0.55	19,170	0.44	15,970	0.37
----	23	1150	33,400	0.77	33,400	0.77	33,400	0.77	27,830	0.64	25,050	0.58	20,040	0.46	16,700	0.38
3000	24	1200	34,850	0.80	34,850	0.80	34,850	0.80	29,040	0.67	26,140	0.60	20,910	0.48	17,420	0.40
----	25	1250	36,300	0.83	36,300	0.83	36,300	0.83	30,250	0.69	27,230	0.63	21,780	0.50	18,150	0.42
----	26	1300	37,750	0.87	37,750	0.87	37,750	0.87	31,460	0.72	28,310	0.65	22,650	0.52	18,880	0.43
----	27	1350	39,200	0.90	39,200	0.90	39,200	0.90	32,670	0.75	29,400	0.67	23,520	0.54	19,600	0.45
3500	28	1400	40,660	0.93	40,660	0.93	40,660	0.93	33,880	0.78	30,490	0.70	24,390	0.56	20,330	0.47
----	29	1450	42,110	0.97	42,110	0.97	42,110	0.97	35,090	0.81	31,580	0.72	25,260	0.58	21,050	0.48
----	30	1500	43,560	1.00	43,560	1.00	43,560	1.00	36,300	0.83	32,670	0.75	26,140	0.60	21,780	0.50
----	31	1550	45,010	1.03	45,010	1.03	45,010	1.03	37,510	0.86	33,760	0.78	27,010	0.62	22,510	0.52
4000	32	1600	46,460	1.07	46,460	1.07	46,460	1.07	38,720	0.89	34,850	0.80	27,880	0.64	23,230	0.53
----	33	1650	47,920	1.10	47,920	1.10	47,920	1.10	39,930	0.92	35,940	0.83	28,750	0.66	23,960	0.55
----	34	1700	49,370	1.13	49,370	1.13	49,370	1.13	41,140	0.94	37,030	0.85	29,620	0.68	24,680	0.57
----	35	1750	50,820	1.17	50,820	1.17	50,820	1.17	42,350	0.97	38,120	0.88	30,490	0.70	25,410	0.58
----	36	1800	52,270	1.20	52,270	1.20	52,270	1.20	43,560	1.00	39,200	0.90	31,360	0.72	26,140	0.60
----	37	1850	53,720	1.23	53,720	1.23	53,720	1.23	44,770	1.03	40,290	0.92	32,230	0.74	26,860	0.62
----	38	1900	55,180	1.27	55,180	1.27	55,180	1.27	45,980	1.06	41,380	0.95	33,110	0.76	27,590	0.63
----	39	1950	56,630	1.30	56,630	1.30	56,630	1.30	47,190	1.08	42,470	0.97	33,980	0.78	28,310	0.65
----	40	2000	58,080	1.33	58,080	1.33	58,080	1.33	48,400	1.11	43,560	1.00	34,850	0.80	29,040	0.67



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Severe Conditions Maximum Rainfall of > 20"

Typical Hydroseeder Tank Sizes (gal)	EarthGuard (Pre-Packaged) Fiber Matrix Loading Chart: Normal Conditions Maximum Rainfall of < 20"							
	Slope		≤4:1		4:1		≥ 3:1	
	EarthGuard Fiber Matrix		Coverage		Coverage		Coverage	
	(50 lb bags)	(lb)	(sq ft)	(ac)	(sq ft)	(ac)	(sq ft)	(ac)
250	2	100	2,180	0.05	1,740	0.04	1,450	0.03
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750	6	300	6,530	0.15	5,230	0.12	4,360	0.10
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1000	8	400	8,710	0.20	6,970	0.16	5,810	0.13
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----	11	550	11,980	0.28	9,580	0.22	7,990	0.18
1500	12	600	13,070	0.30	10,450	0.24	8,710	0.20
----	13	650	14,160	0.33	11,330	0.26	9,440	0.22
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2500	20	1000	21,780	0.50	17,420	0.40	14,520	0.33
----	21	1050	22,870	0.53	18,300	0.42	15,250	0.35
----	22	1100	23,960	0.55	19,170	0.44	15,970	0.37
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----	26	1300	28,310	0.65	22,650	0.52	18,880	0.43
----	27	1350	29,400	0.67	23,520	0.54	19,600	0.45
3500	28	1400	30,490	0.70	24,390	0.56	20,330	0.47
----	29	1450	31,580	0.72	25,260	0.58	21,050	0.48
----	30	1500	32,670	0.75	26,140	0.60	21,780	0.50
----	31	1550	33,760	0.78	27,010	0.62	22,510	0.52
4000	32	1600	34,850	0.80	27,880	0.64	23,230	0.53
----	33	1650	35,940	0.83	28,750	0.66	23,960	0.55
----	34	1700	37,030	0.85	29,620	0.68	24,680	0.57
----	35	1750	38,120	0.88	30,490	0.70	25,410	0.58
----	36	1800	39,200	0.90	31,360	0.72	26,140	0.60
----	37	1850	40,290	0.92	32,230	0.74	26,860	0.62
----	38	1900	41,380	0.95	33,110	0.76	27,590	0.63
----	39	1950	42,470	0.97	33,980	0.78	28,310	0.65
----	40	2000	43,560	1.00	34,850	0.80	29,040	0.67