

SOILPAM™

GENERAL INFORMATION

SOILPAM is designed to virtually eliminate soil erosion and increase lateral water infiltration. It works to stabilize soil structure so surface sealing is significantly reduced. SOILPAM can keep soil, nutrients, and farm chemicals on crop fields.

DIRECTIONS FOR ADDING SOILPAM TO IRRIGATION WATER

- When adding dry powder directly to irrigation water, allow as much contact time with the water by adding product as far upstream as possible. To enhance dissolution and mixing, add SOILPAM to turbulent water flow.
- Discontinue SOILPAM addition after irrigation water has advanced to the end of the field. SOILPAM should continue to work for the remainder of the set.
- It is best to add SOILPAM to irrigation water with a dry product dispenser.
- The required SOILPAM application rate will depend on field conditions and benefits sought. Generally, one pound per acre is applied during the first irrigation cycle on freshly cultivated soil.
- Addition to irrigation water can be based on 1) the water flow rate, or 2) the number of acres being irrigated.

ADJUSTING SOILPAM RATE BASED ON IRRIGATION WATER FLOW RATE

- SOILPAM application rate can be adjusted based on field conditions, but initially target a 10 parts per million (ppm) concentration of SOILPAM in the irrigation water. Adjustments can be made based on visual results after the set has begun.
- Based on irrigation water flow to the field, determine the appropriate SOILPAM dispensing rate (See Table 1)
- The time for water to advance through the field (advance time) will determine the amount of SOILPAM required. It may be useful to increase water flow rate to the furrow during SOILPAM application to facilitate rapid water advance across fields and to reduce the amount of SOILPAM required. When using SOILPAM, the water flow rate into each furrow can generally be increased without erosion problems.

TABLE 1: Dispenser Addition Rate to Achieve SOILPAM Concentration Rate of 10ppm

Irrigation Water Flow Rate		SOILPAM Rate	
CFS	GPM	Ounces/Min.	Pounds/Hr.
0.5	225	0.3	1.2
1.0	450	0.6	2.3
1.5	670	0.9	3.5
2.0	900	1.2	4.5
3.0	1350	1.8	6.8
4.0	1800	2.4	9.0
5.0	2250	3.0	11.3
6.0	2700	3.5	13.5

ADJUSTING SOILPAM RATE BASED ON NUMBER OF ACRES BEING TREATED

- In fields with steep slopes and short water advance times, the 10ppm treatment will be approximately one pound per acre.
- Using a “cut-back” strategy will minimize your SOILPAM consumption and help get water across the field.

TABLE 2: SOILPAM Addition Rate to Deliver One Pound of SOILPAM per Acre

Acres to Treat	Water Advance Time in Hours					
	Ounces Per Minute					
	2 Hrs.	4 Hrs.	6 Hrs.	8 Hrs.	10 Hrs.	12 Hrs.
1	0.1	0.1	0.04	0.03	0.03	0.02
2	0.3	0.1	0.09	0.07	0.05	0.04
3	0.4	0.2	0.1	0.1	0.08	0.07
4	0.5	0.3	0.2	0.1	0.1	0.09
5	0.7	0.3	0.2	0.2	0.1	0.1
10	1.8	0.7	0.4	0.3	0.3	0.2
15	2.0	1.0	0.7	0.5	0.4	0.3

DIRECTIONS FOR ADDING SOILPAM DIRECTLY TO SOIL

FURROW IRRIGATION

- Although this method does not normally work as well as adding SOILPAM to irrigation water, it does provide erosion prevention and infiltration benefits. SOILPAM Tablets are an attractive alternative to this method.
- A one pound per acre application requires placement of approximately one ounce of SOILPAM for each 1,000 feet of row length at the head of each furrow to be treated. Lay SOILPAM in the furrows before starting irrigation water.
- Place SOILPAM where the irrigation water hits the soil and spread down furrow about one to two feet. Start water slowly, if possible, to prevent washing SOILPAM down the furrow.

GENERAL SOIL STABILIZATION (NON-IRRIGATED LAND)

- The amount of SOILPAM required for a broadcast application varies depending upon field slope, soil type, and desired results. Typical SOILPAM requirement to stabilize and protect areas against crust and erosion is four pounds per acre or more.
- Broadcast SOILPAM onto the soil surface to be stabilized. Do not allow SOILPAM to get wet while broadcasting, and do not leave in spreader for long periods of time.
- When stabilizing for erosion protection, it is advantageous to apply higher amounts of SOILPAM to areas more susceptible to erosion.

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