

## GUIDE SPECIFICATION FOR **GEOPRO BASIS**

### HYDRAULIC MULCHES

#### PART 1 GENERAL

##### 1.01 SUMMARY

- A. This section specifies a spray-applied hydraulic mulch which is used for 1) Hydraulic mulching and 2) Hydraulic seeding.

##### 1.02 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions. Include required substrate preparation, list of materials and application rates.

##### 1.03 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials and products in factory labeled packages. Store and handle in strict compliance with manufacturer's instructions and recommendations. Protect from damage from weather, excessive temperatures and construction operations.

#### PART 2 PRODUCTS & RELATED EQUIPMENT

##### 2.01 ACCEPTABLE MANUFACTURER

- A. Price and Company, Inc., 425 36<sup>th</sup> Street SW, Wyoming, MI 49548-2108, 800.248.8230, Fax: 616.530.2317, Email: [geopro@priceandcompany.com](mailto:geopro@priceandcompany.com), Web: [www.priceandcompany.com](http://www.priceandcompany.com)

##### 2.02 MATERIALS & EQUIPMENT

- A. Hydraulic Mulch: **Geopro Basis** by Price and Company, Inc. with the following characteristics:
  - 1. 50±% virgin hardwood fiber
  - 2. 50±% post consumer recycled paper
  - 3. Packaging: 50 pound bags
- B. Equipment: Use only mechanically agitated equipment. Hydraulically agitated equipment is not approved.

#### PART 3 EXECUTION

##### 3.01 SURFACE SOIL PREPARATION

- A. Examine surface soils where products will be applied. Do not proceed with installation until unsatisfactory conditions are corrected.
  - 1. Apply products to flat or geotechnically stable slopes, only.
  - 2. Apply products to slopes above which water flows have been diverted away from the slope crest, if applicable.
  - 3. Apply to soil surfaces which are not 'frozen', as defined by ice crystal formation or snow dusting.
- B. For hydraulic mulching or hydraulic seeding
  - 1. Gill or otherwise break up crusted soils.
  - 2. Place seed and amendments per Project Engineer's recommendations [mulching applications].

##### 3.02 HYDRAULIC SLURRY PREPARATION – MECHANICALLY AGITATED EQUIPMENT ONLY

- A. For hydraulic mulching or hydraulic seeding:

PART 3 EXECUTION CONTINUED

1. Fill tank with water to a level of at least 50% of useable tank capacity.
2. Start agitation within tank.
3. Add mulch, seed and soil amendments [if used] per standard practices. .
4. As additional water is added, add hydraulic mulch to the water at a rate not exceeding 50 pounds of dry mulch material for each 100 gallons of water. Complete the water/mulch addition process until completion. See TABLE 3.02.A or TABLE 3.02.b for mulch quantities to be added per equipment tank size.
5. If used, slowly sprinkle Silt Stop 705 soil stabilizer into slurry with agitator operating.
6. Continue mixing with agitator for a minimum of 10 minutes prior to slurry use.

TABLE 3.02.A – For slurries comprised of 50 lbs mulch for each 100 gallons of water

Tank Size (useable gallons)	Geopro Basis (bags)	Silt Stop 705 Soil Stabilizer <sup>1</sup> (cups)	Approximate Coverage (square feet)	Approximate No. of Tanks Per Acre
600	6	6	6,500	6.7
800	8	8	8,700	5
1000	10	10	10,900	4
1200	12	12	13,000	3.4
1400	14	14	15,200	2.9
1600	16	16	17,400	2.5
1800	18	18	19,600	2.25
2000	20	20	21,800	2
2200	22	22	23,900	1.8
2400	24	24	26,100	1.7
2600	26	26	28,300	1.6
2800	28	28	30,500	1.4
3000	30	30	32,600	1.4
3200	32	32	34,800	1.25
3400	34	34	37,000	1.2
3600	36	36	39,200	1.2

<sup>1</sup> Optional [recommended] maximum quantity of Silt Stop 705 which may be added per tank load

TABLE 3.02.B – For slurries comprised of 40 lbs mulch for each 100 gallons of water

Tank Size (useable gallons)	Geopro Basis (bags)	Silt Stop 705 Soil Stabilizer <sup>1</sup> (cups)	Approximate Coverage (square feet)	Approximate No. of Tanks Per Acre
600	4.8	6	5,200	8.3
800	6.4	8	6,900	6.3
1000	8	10	8,700	5
1200	9.6	12	10,400	4.2
1400	11.2	14	12,200	3.6
1600	12.8	16	13,900	3.2
1800	14.4	18	15,600	2.8
2000	16	20	17,400	2.5
2200	17.6	22	19,100	2.3
2400	19.2	24	20,900	2.1
2600	20.8	26	22,600	1.9
2800	22.4	28	24,400	1.8
3000	24	30	26,100	1.7
3200	25.6	32	27,800	1.6
3400	27.2	34	29,600	1.5
3600	28.8	36	31,300	1.4

<sup>1</sup> Optional [recommended] maximum quantity of Silt Stop 705 which may be added per tank load

PART 3 EXECUTION CONTINUED

3.03 INSTALLATION

- A. For hydraulic mulching or as part of hydraulic seeding:
  - 1. Apply slurry at a minimum rate of 2000 pounds per acre of dry mulch material.
  - 2. Apply slurry in a manner that will cover all soil surfaces.

3.04 SPILL CLEAN-UP

- A. Clean spills promptly
  - 1. Dry spills – sweep or brush from surfaces. Do not add water as this will make the surface slippery.
  - 2. Wet or wetted spills – use copious amounts of water to wash the material from the surface. Caution: surfaces may be slippery.

3.05 EQUIPMENT CLEAN-UP

- A. Clean equipment promptly – prior to daily shutdown or when extended delays are experienced
- B. Thoroughly rinse tank, pump, hoses and nozzles with clean water

END OF SECTION