

University of Kentucky

UKnowledge

---

Agricultural Engineering Extension Updates

Biosystems and Agricultural Engineering

---

1996

## Reducing Mud Using Highway-Type Filter Materials

Larry W. Turner  
*University of Kentucky*

Follow this and additional works at: [https://uknowledge.uky.edu/aeu\\_reports](https://uknowledge.uky.edu/aeu_reports)



Part of the [Bioresource and Agricultural Engineering Commons](#)

[Right click to open a feedback form in a new tab to let us know how this document benefits you.](#)

---

### Repository Citation

Turner, Larry W., "Reducing Mud Using Highway-Type Filter Materials" (1996). *Agricultural Engineering Extension Updates*. 18.

[https://uknowledge.uky.edu/aeu\\_reports/18](https://uknowledge.uky.edu/aeu_reports/18)

This Report is brought to you for free and open access by the Biosystems and Agricultural Engineering at UKnowledge. It has been accepted for inclusion in Agricultural Engineering Extension Updates by an authorized administrator of UKnowledge. For more information, please contact [UKnowledge@lsv.uky.edu](mailto:UKnowledge@lsv.uky.edu).



# Agricultural Engineering Update



Structures & Environment



Soil & Water



Energy



Safety



Crop Processing



Power & Machinery

AEU-68

## REDUCING MUD USING HIGHWAY-TYPE FILTER MATERIALS

Larry W. Turner

Associate Extension Professor

Several beef and dairy producers across the country have been successful in dramatically reducing mud problems without resorting to the use of expensive concrete or pavement. A load-bearing material used in the highway industry can be placed in high animal traffic areas, on mounds, around feed bunks and in "transition" areas where animals move onto or off of concrete. The materials are of two basic types; 1) geotextiles, which are a porous filter-type material, and 2) polyethylene-type plastic grid material. Costs for installing the finished surface are about one-third the cost of concrete.

Figure 1 illustrates suggested installation method. The area to be surfaced should be excavated to 6" - 8" deep. Place 4"-6" of #4 crushed limestone rock over the fabric or grid material. An additional layer of 2"-3" of fine material such as "dense grade", screened lime (greater than #200 mesh), or sand should be used to cover the rock. Care should be taken to ensure that the fabric material is placed smoothly, with few wrinkles, so that the load will be distributed evenly. A list of suppliers is given on reverse side.

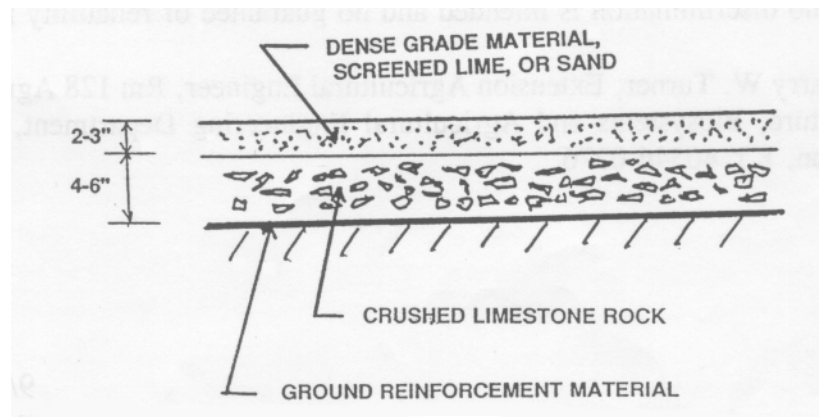


Figure 1: Suggested method for installation of ground reinforcement material.

## SUPPLIERS OF GROUND REINFORCEMENT MATERIAL

Am Con Construction Products  
Box 1516  
Somerset, KY 42502-6416  
800-866-0369

C & P Supply  
PO Box 376  
Allen, KY 41601  
606-874-8052  
FAX: 606-874-2310  
(distributor for Am Con)

Cow Carpet  
303-305 W Green Road  
PO Box 1756  
High Point, NC 27260  
910-883-6624

Reemay, Inc. (Typar)  
70 Old Hickory Blvd Box 511  
Old Hickory, TN 37138  
800-321-6271

Tensar Polytechnologies, Inc.  
1210 Citizens Parkway  
Morrow, GA 30260  
800-292-4457

American Excelsior Co.  
415 W. Seymour Avenue  
Cincinnati, OH 45216  
513-761-7384  
800-325-2135

Carthage Mills  
4243 Hunt Road  
Cincinnati, OH 45242  
513-794-1600  
FAX: 513-794-3434  
800-543-4430

Kent Doke  
K D Farms Inc.  
Route 1 Box 34  
Alachua, FL 32615  
904-462-1466

TR Polymats Inc.  
2263 Hoxie Road  
Mannsville, NY 23661  
800-633-3661

The above partial list of manufacturers and suppliers is furnished for your information, with the understanding that no discrimination is intended and no guarantee of reliability implied.

Compiled by Dr. Larry W. Turner, Extension Agricultural Engineer, Rm 128 Agr. Engr. Bldg., College of Agriculture, Biosystems and Agricultural Engineering Department, University of Kentucky, Lexington, KY 40546-0276.