

NATURAL RESOURCES CONSERVATION SERVICE

CONSERVATION PRACTICE STANDARD

POND SEALING OR LINING

CODE 521-B-S

SOIL DISPERSANT SPECIFICATION

Application shall be as follows:

1. The area to be treated shall be cleared of all vegetation and debris and all stones or other objects large enough to interfere with operation of the compaction equipment. Reservoir side slopes must be 2½:1 or flatter for ease of application and safety purposes.
2. The moisture content of the soil must be such that it tills and breaks up readily for uniform distribution of the sealing chemicals throughout the depth of application.
3. Sealing chemicals shall be distributed evenly over the surface to be treated with a drill, seeder, or fertilizer spreader or by hand broadcasting. If broadcast by hand, the area must be staked or otherwise marked in grids of 100 ft.²
4. The chemicals shall be thoroughly mixed into the 6-8 inch layer of soil being treated. Mixing shall be done with disk, rototiller, pulverizer, or similar equipment. A second mixing shall be perpendicular to the first mixing.
5. If the moisture is inadequate for maximum compaction, water shall be added by sprinkling during the mixing operation. If the moisture content is too high, the soil shall be dried by disking or some other effective process.
6. Each treated layer of soil shall be compacted to a dry density of 90 percent or more of maximum standard Proctor density with the soil at optimum or slightly higher moisture content.
7. Treated areas shall be protected from puncture by livestock trampling. Areas near

the normal waterline and at points of concentrated surface flow into the pond shall be protected against erosion.

Sediment coagulating chemicals, such as gypsum or iron sulfate, shall not be used to clear reservoir water after treatment.

Construction shall be carried out in such a manner that erosion and air and water pollution are minimized. The completed job shall present a workmanlike finish.

Dust masks are required when using soda ash due to drying effects on the respiratory system.

Filling and Operation: The pond may be filled immediately upon completion. Any drying cracks that occur are repaired by disking and recompacting the area. Freezing and thawing will reduce density and increase permeability.