



SAFE ENCASUREMENT SYSTEMS-MIDWEST

**SPECIFICATION NO. 00-2
AUGUST, 2000; REVISED NOVEMBER, 2004**

ENCASUREMENT OF ASBESTOS-CONTAINING SOIL

Soil in crawl spaces and tunnels in which asbestos-insulated pipes are or have been present is often contaminated with asbestos. In the past the asbestos has been dealt with by removing soil until asbestos can no longer be detected or by covering the soil with concrete. Removal of the contaminated soil can be extremely costly, depending on the amount of soil that has to be removed and the length of the tunnel or crawl space. The use of concrete suffers from the disadvantage that the concrete can crack in the future, creating the potential for fiber release. Concrete cannot be used readily over uneven surfaces and the installation can be complicated and expensive where long tunnels are involved. The use of Safe Encasement Systems coating materials offers an affordable alternative. The resulting coating provides a tough, monolithic, elastomeric covering that will never crack and that prevents the release of asbestos into the environment. The procedure is as follows.

PENETRATION OF THE SOIL WITH DILUTED PRIMER

The goal of the initial application of SE-110-MS primer, diluted with 6 parts of water, is to penetrate into the soil at least 1-3 inches (varies with the soil) to bind the soil particles together. The diluted primer is best applied using an airless sprayer with a 6-foot extension. It should be applied to achieve a coverage rate of approximately 20 sq. ft. per gallon of diluted primer in one pass (dilute the primer in a spare 5-gallon pail).

APPLICATION OF FULL-STRENGTH PRIMER

The full strength SE-110-MS primer is next sprayed on with the same equipment to achieve a thickness of 16-20 wet mils (80-100 sq. ft. per gallon). It is recommended that 1" x 12" boards be laid on the freshly applied primer as you work your way into the crawl space or tunnel (the primer remains tacky when it is dry). The SE-110-MS should be applied 3-4 inches up the perimeter side walls. The primer needs to be allowed to dry and fans can be used to speed up the drying process. It can take up to 48 hours for the primer to dry adequately.

APPLICATION OF TOPCOAT

SE-120 flat-finish topcoat or SE-130 satin-finish topcoat is finally applied in the same manner, starting on the inside and working out, to achieve a wet film thickness of 16-20 wet mils (80-100 sq. ft. per gallon), encasing the planks and all exposed soil and the perimeter wall to a height of 3-4 inches. The system should then be allowed to dry, with the aid of fans, for at least 2-3 days.

MATERIAL REQUIREMENTS

SE-110-MS primer for penetration of soil	7 gallons/1000 sq. ft.
SE-110-MS primer for full-strength coat	10-12 gallons/1000 sq. ft.
SE-120 or SE-130 topcoat	10-12 gallons/1000 sq. ft.

The costs of materials at these coverage rates is approximately \$1.25-1.50 per sq. ft.