

Strong-Seal[®] Systems

Specifications - Mixing and Placing

Specifications

Scope

This specification covers vermiculite insulating concrete. Materials shall conform to ASTM standards. Thickness shall be as indicated on the drawings. A minimum of two inches is recommended.

Materials

- A. **Cement** shall be type I or type III Portland Cement in accordance with ASTM standards C-150.
- B. **Vermiculite** shall be in accordance with ASTM standard C-332 Group I.
- C. **Air Entraining** shall be liquid neutralized vinsol resin used at the rate of approximately 1 pint per four cubic feet of vermiculite.
- D. **Water** shall be clean and potable.

Proportions and Properties

The proportion of cement to vermiculite shall be in the ratio of one part cement to _____ parts vermiculite. The wet density shall be _____ psf, oven dry density _____ psf and compressive strength _____ psi in 28 days. At Architect's direction, four 3" x 6" cylinders shall be taken from each days pour and submitted to independent testing lab for strength and density test.

Mixing and Placing

1. Equipment shall be of special design to insure proper mixing in as short a duration as possible. Only that amount of water necessary to have mix pumpable and flowable in hose shall be used. In no case shall this exceed 3.5 gallons pre cubic foot of vermiculite.
2. Materials shall be placed in panels in a continuous operation. Material shall be screeded with a straight edge. No tamping, rodding, vibrating or steel troweling is necessary. When fill is used to slope for drainage, screeds shall be set to proper grade to insure slope.

Curing

No traffic shall be allowed on deck for 24 hours from completion or pour or, until deck will support traffic without damage. In very dry weather the deck shall be sprinkled to prevent drying out. Otherwise, the roof membrane shall be applied as soon as the deck has sufficient strength to support foot traffic and surface is dry enough to develop adhesion between deck and hot asphalt or pitch. Under normal conditions this will occur within three to five days.

Roofing

Roofing shall be applied in accordance with roofing manufacturers specifications for light weight poured decks.