

**06025 Curing Compound****Index**

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**06025-1     Material****1.1            Composition and Properties**

The ingredients of liquid membrane-forming compounds (curing compounds) shall not be toxic or dangerously inflammable. Use of benzene, toluene, carbon tetra-chloride, ethyl alcohol, or other toxic materials shall not be permitted.

The compound shall contain a temporary colour indicator which shall be readily distinguishable from the concrete surface for at least four hours after application. The colour shall become inconspicuous within seven days after application.

**1.2            Character of the Film**

The compound shall adhere to damp concrete and shall form a continuous coherent film when applied at the specified rate of application.

When dry, the covering shall be continuous, flexible, and without breaks or pin-holes and shall remain as unbroken film for at least seven days after application to the laboratory specimen. The liquid membrane-forming compound shall not react deleteriously with the concrete.

**1.3            Consistency**

The liquid membrane-forming compound (curing compound) shall be of such consistency that it can be readily sprayed to a uniform coating at temperatures above 5°C by means of atomizing nozzles. When sprayed on the vertical face of a damp concrete block in the laboratory at the manufacturer's specified rate of application, it shall not run or sag.

**1.4            Storage Stability**

The membrane-forming compound shall be storable for at least three months without deterioration and shall resist freezing.

The compound shall not settle to the extent that it cannot be readily restored to uniformity by moderate stirring or agitation by compressed air.

**1.5            Drying Time**

When applied to a damp concrete surface at the specified rate of application, the membrane-forming compound shall feel dry to touch in not more than four hours. When dried, the compound shall not be tacky or track off the concrete when walked upon, or impart a slippery surface to the concrete.

**1.6            Moisture Retention**

When tested in the water retention test, the liquid membrane-forming compound shall restrict the loss of water present in the test specimen at the time of application of the curing compound to not more than 0.04 grams per square centimetre of area.

**06025-2      Certification of Material**

Bidders shall submit a letter, in duplicate, from the manufacturer and from an approved testing laboratory certifying that the curing membrane meets the accompanied specification. Bidders shall also provide the following information:

1.      Percentage of solids.
2.      Specific gravity at 25°C.
3.      Reflective index at 25°C.
4.      Flash point.
5.      Viscosity at 5°C.
6.      Resistance to early rainfall.
7.      Moisture loss in grams per square centimetre, for periods of one to seven days exposure time with various rates of applications in square metres per litre at 40°C and 30% relative humidity.

**End of Specification 06025**