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Client: Debut Concrete Inc. c/o: Town of Islip

Project: Information of Client

Subject: Laboratory Testing of Penetron Waterproofing Material

Job No:

Report No. 98-12398

Date: 7/16/98

We present herewith laboratory test results of the Penetron coated concrete samples.

The Penetron waterproofing material was supplied by the manufacturer in sealed bags.

Upon request from the client Penetron was tested in compliance with DIN 1048 with regard to their water impermeability.

For the execution of the hydrostatic test, three blocks made of water impermeable concrete with each a water permeable inner core of approximately 80mm diameter were coated with Penetron on one side.

The water permeable inner core was inserted into a corresponding bore hole in the concrete block together with an polysulfide sealant.

Penetron was mixed with a ratio of Penetron : water 3 : 1 ½. The consistency obtained was to be qualified as brushable. According to the indications of the manufacturer, the coating was made as follows.

1. mechanically cleaning of the blocks (to remove any latents).
2. Pre-moistening of the test blocks.
3. Application of the first coat of Penetron in a thickness of approximately 1.2 mm.

4. The coating was kept moist during a period of 8 hours and then stored for 16 hours in a 24<sup>0</sup> C (75<sup>0</sup> F) climate.
5. Pre-moistening of the first coat and application of the second coating as per pt. 3.
6. Regular moistening of the coating during a period of 2 days.
7. Storage for 14 days 24<sup>0</sup> C (75<sup>0</sup> F) climate until testing.

Testing procedure and results:

The hydrostatic pressure to be applied according to DIN 1048 was increased by 1 bar every 48 hours. By the time a pressure of 16 bar was reached (156.79 meters) (232 psi), no penetration of moisture through the coating was to be stated.

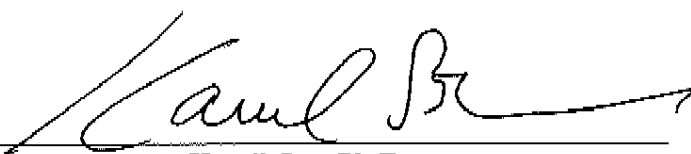
The test surface of the water permeable inner core did not show any damage, nor water permeabilities of the Penetron Coating.

Testing was concluded at 16 bars due to the limitation of the testing equipment.

Conclusions:

From the test observations, it can be concluded that the concrete samples treated with Penetron does not show any permeance or leakage in the permeability tests up to (156.79 meters), (232 psi).

SHIMEL and SOR TESTING LABORATORIES, INC.



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KS:gh

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