

Client:	Permaquik Corporation		
Project:	Information of Client (P.O. 12942)		
Subject:	Laboratory Tests of PQ-Ectoflex 4020 Concrete Flexible Coating		
Job No.:	05-198	Report No.:	06-1875
		Date:	3/27/2006

We present herewith laboratory test results of the PQ-Ectoflex 4020 Concrete Flexible Coating material ingredients sent to us by the client.

As requested, the samples received were mixed in our laboratory and specimens were prepared and tested for several performance properties.

Both the mix proportions, mixing procedures, and the application rates were done in conformance with the Manufacturer's recommendations as follows:

The Ectoflex 4020 mix proportions used were:

- 4.4 lbs. of powder, and
- 1.0 liter of liquid polymer.

The thickness of the PQ-4020 used was 2 mm (~80 mils).

The concrete used was a $f'_c = 3000$ psi air entrained concrete which was designed as per the ACI specifications.

TEST RESULTS

1. Water Vapor Transmission (ASTM E-96)

Permeance = 0.19 perms (10.9 x mg/Pa·S·m ²)

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2. Water Permeability

- A. Regular Constant Head Method (ASTM D-2434)
K = not permeable
- B. With 100 psi confined pressure (ASTM D-5084)
K = not permeable
- C. Over 150 psi confined pressure
K = 7.0×10^{-14} cm/sec.

3. Crack Bridging

- Size of Cracks: 1/32, 1/16, and 1/8 inches
Bridging: Excellent
- 1/4 inch crack: Bridging fair/poor

4. Tensile Strength and Elongation

Property	Results (*)
Tensile Strength, psi	280
% Elongation	65

(*) Average of duplicate tests.