



**Metro
Testing
Laboratories
Ltd.**

Consulting
Engineering
Testing

Materials
Technology

Suite 101
6976 Russell Ave.
Burnaby, B.C.
V5J

Tel (604) 436-9111
Fax (604) 436-9050

October 14, 1999

File #4332

XYPEX CHEMICAL CORPORATION
13731 MAYFIELD PLACE
RICHMOND, B.C.
V6V 2G9

Attn: Mr. Vic Barber

**Subject: Bond Pull-Off Testing of Xypex
Concentrate and Modified Coatings**

Metro Testing Laboratories Ltd (MTL) received six (6) concrete sample blocks with various applications of Xypex Concentrate and Modified Coatings. MTL's scope of work was to determine the bond strength of each coating application by Bond Pull-Off Testing. This testing was completed and the observations are as follows.

Test Method - Testing was conducted by attaching a 4" square steel plate to the coating surface using a high strength epoxy adhesive. A tensile load was applied to the plate perpendicular to the coating surface until failure had occurred. The load was applied using a calibrated hydraulic ram and frame combination.

Test Observations - Upon test failure, the ultimate load achieved along with the mode of failure was recorded. These observations are summarized as follows.

Coating Type	Sample I.D.	Tensile Bond Strength		Mode of Failure
		MPa	psi	
Concentrate + Modified	203	1.62	235	50% Coating, 50% Concrete. 10% Coating, 90% Concrete.
	204	1.35	196	
	Ave	1.49	216	
Modified	205	1.50	218	10% Coating, 90% Conc. Surface. Spit concrete block prior to failure.
	206	1.38	200	
	Ave	1.44	209	
Concentrate	207	1.01	146	40% Coating, 60% Conc. Surface. 75% Coating, 25% Conc. Surface.
	208	1.47	213	
	Ave	1.24	180	

We trust that the information provided meets your requirements and if you have any questions, please do not hesitate to call.

Yours truly,

Metro Testing Laboratories Ltd

Curtis Symyk

RECEIVED
OCT 20 1999

TEL: 4332-0105

Metro Testing Laboratories Ltd.
Burnaby / Whistler

Valley Testing Services Ltd.
Abbotsford

MTL Engineering Ltd.
Burnaby