

Ferroflex - 411
ผลทดสอบการไม่เป็นพิษต่อน้ำดื่ม



No. 0306/ 10255

Index Material (Thailand) Co., Ltd.
99/349 Na-Nakorn Building (5 th floor)
Chaengwattana Rd., Thungsonghong
Bangkok 10210

DEPARTMENT OF SCIENCE SERVICE
RAMA VI ROAD, RATCHATHEW DISTRICT
BANGKOK 10400, THAILAND

22 July 2004

Dear Sirs,

With reference to your request of 16 June 2004
we are pleased to send you the following report on the sample/s of
received on 16 June 2004.

Ref. No. 3862

"Ferroflex"

Yours truly,

Chemistry Program
Tel. 0 2201 7219-20

A. Leowchavalit
(Mrs. Song-sang Leowchavalit)
Director, Chemistry Program

REPORT

Sender's Sample Designation	Marking	Laboratory No.		
Ferroflex	-	XI.141	Arsenic, mg/L	not detected
			Cyanide, mg/L	not detected
			Cadmium, mg/L	not detected
			Chromium, mg/L	0.002
			Barium, mg/L	0.02
			Lead, mg/L	not detected
			Mercury, mg/L	not detected
			Selenium, mg/L	not detected

AUNGSANA CHUASUWAN
(Mrs. Aungsana Chuasawan)
Scientist 6

The above report is valid for the received sample/s only. The report does not guarantee
any such material of the same brand or marking which may be sold in the market
THIS REPORT IS NOT TO BE USED FOR ADVERTISING PURPOSES.

Ferroflex - 411
ผลทดสอบแรงยึดเกาะ

AIT

Doc. No. S0020-05

Asian Institute of Technology

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STRUCTURAL ENGINEERING LABORATORY

STRUCTURAL ENGINEERING AND CONSTRUCTION PROGRAM

SCHOOL OF CIVIL ENGINEERING

TEST TYPE: BOND STRENGTH BY SLANT SHEAR TEST (ASTM C 882)

TEST SPECIMEN: Three (3) specimens were cast in the SE laboratory. The mix ratio of "Ferroflex" is powder part : liquid part = 100 : 15 by weight.

CLIENT: FERRO CONSTRUCTION PRODUCTS CO., LTD.

DATE OF TEST: November 17, 2004

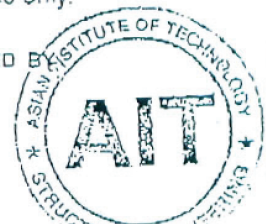
TEST METHOD: After mixed thoroughly, the adhesive was applied to the slant surfaces of two pieces of concrete cylinder which were cut by slant angle of 30 degrees from concrete cylinder of nominal size 100 mm. in diameter by 200 mm. in height. They were jointed together. The specimens are made and curing in room temperature for testing at require ages.

TEST RESULTS: The bond strength of specimens at the age of 28 days are shown as follows.

Specimen No.	Size of Elliptical surface Ds x Ls (cm.)	Bond area of tested Specimen (cm ²)	Maximum Load (kgf)	Bond Strength (kgf/cm ²)	Remarks
1	10.01 x 15.66	130.98	3,070	23.44	The failure of all specimens occurred at the welded joints 1 kgf/cm ² = 0.0981 MPa. Average bond strength of specimens is 2.38 MPa. at 28 days age.
2	10.01 x 16.15	126.97	3,270	25.76	
3	10.20 x 16.20	129.78	3,070	23.55	
			Average	24.28	

Note : This results certify the adequacy and representative character of the test samples only.

CHECKED & APPROVED BY



Sun Sayamipuk
DR. SUN SAYAMIPUK
SENIOR LABORATORY SUPERVISOR
January 12, 2005

Ferroflex - 411
ผลทดสอบประสิทธิภาพกันซึม



Doc. No. SO706E-04

Asian Institute of Technology

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TYPE OF TEST: PERMEABILITY TEST (JIS A 1404)

TEST SPECIMEN: Three (3) specimens of cylindrical concrete having a 150 mm. in diameter and 40 mm. in thickness were cast in the SE laboratory. The mix proportion consist of "Feroflex part A (powder)" : "Feroflex part B (Liquid)" is 4 : 1 by weight.

CLIENT: INDEX MATERIAL (THAILAND) CO., LTD.

DATE OF TEST: September 23, 2004

TEST APPARATUS: The mortar permeability test apparatus: DH-15 was used.

TEST RESULTS: The permeability of specimens at the age of 28 days are shown as follows.

Specimen No.	Oven Dry Weight of (g.)	Weight of Specimen After Tested (g.)	Weight of Specimen Water (g.)	Depth of Water Penetration (mm.)	Penetrated Area (m ²)	Coefficient of Permeability K _w (m ²)	Coefficient of Water Permeability K _w * (m/s)
1	1,764.50	1,770.82	6.32	15.90	0.001963	4.37E-17	4.74E-10
2	1,806.38	1,812.36	5.98	15.50	0.001963	4.04E-17	4.37E-10
3	1,829.78	1,836.96	7.16	15.75	0.001963	4.92E-17	5.33E-10
Average						4.44E-17	4.82E-10

- Not : 1) All of specimens were tested under the application of 3 kg./cm² hydraulic pressure for an hour.
2) This results certify the adequacy and representative character of the test samples only.

CHECKED & APPROVED BY :

DR. SUN SAYAMIPIUK
SENIOR LABORATORY SUPERVISOR
September 24, 2004

