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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 which from of "Ferrorez-713" were prepared in SE laboratory.

CLIENT: FERRO CONSTRUCTION PRODUCTS CO., LTD.

DATE OF TEST: February 26, 2005

TEST METHOD: The "Ferrorez-713" epoxy resin consists of two component namely the base component (A) and the hardener component (B) with mixing in the ratio of A:B = 2 : 1 by weight. After thoroughly mixed, the epoxy resin was applied to the slant surfaces of two pieces of concrete cylinder which were cut by slant angle 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 7 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 16.63	130.64	6,220	47.61	The failure of all specimens occurred at the welded joints. 1 kgf/cm ² = 0.0981 MPa. Average bond strength of specimens is 4.60 MPa. at 7 days age.
2	10.01 x 16.33	128.28	6,020	46.93	
3	10.06 x 16.50	130.37	6,020	46.18	
			Average	46.91	

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

CHECKED & APPROVED BY :



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