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Your Ref.: **01/SKDT-03**

Our Ref.: **A 6414/JAS/1**

Date: **03/03/2003**

TEST REPORT

Page 1 of 5

(This Report is issued subject to the terms & conditions set out below)

Subject : Determination of slant shear bond strength on Sikadur 731 Epoxy Resin Adhesive submitted by Sika Limited (Vietnam) on 23/01/2003.

Tested for : **Sika Limited (Vietnam)**
Nhon Trach 1 Industrial Zone
Dong Nai, Vietnam
Attn.: Mr. Murugesu Vasudevan

Method of Test : ASTM 882 : 1999

Description of Sample : Four sets of Sikadur 731 Epoxy Resin Adhesive comprising of the following components were received, (see photograph 1 attached).

1. Four cans of Sikadur 731 Epoxy Resin Adhesive Part A (Resin) Batch No.: 502301 weighing approximately 1.34 kg each
2. Four cans of Sikadur 731 Epoxy Resin Adhesive Part B (Hardener) Batch No.: 502302 weighing approximately 0.66 kg each.

3A(015)/A6414-1/Sika Limited/JAS/sh

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Mix Proportion : As specified by the client, the mix proportion was as follows :

Sikadur 731 Part A (Resin) - 2 parts
Sikadur 731 Part B (Hardener) - 1 part

Mixing Procedure : As specified by the client, the mixing procedure was as follows:

1. The correct proportion of the above components were weighed.
2. The resin and hardener were mixed together by hand-held mixer for approximately 3 minutes until a uniform consistency was achieved.

Results : The results of the slant shear bond strength are given in Table 1.



Warren Gan
Testing Officer



Jasbeer Singh
Senior Technical Officer (Concrete)
Construction Technology Division

Results:

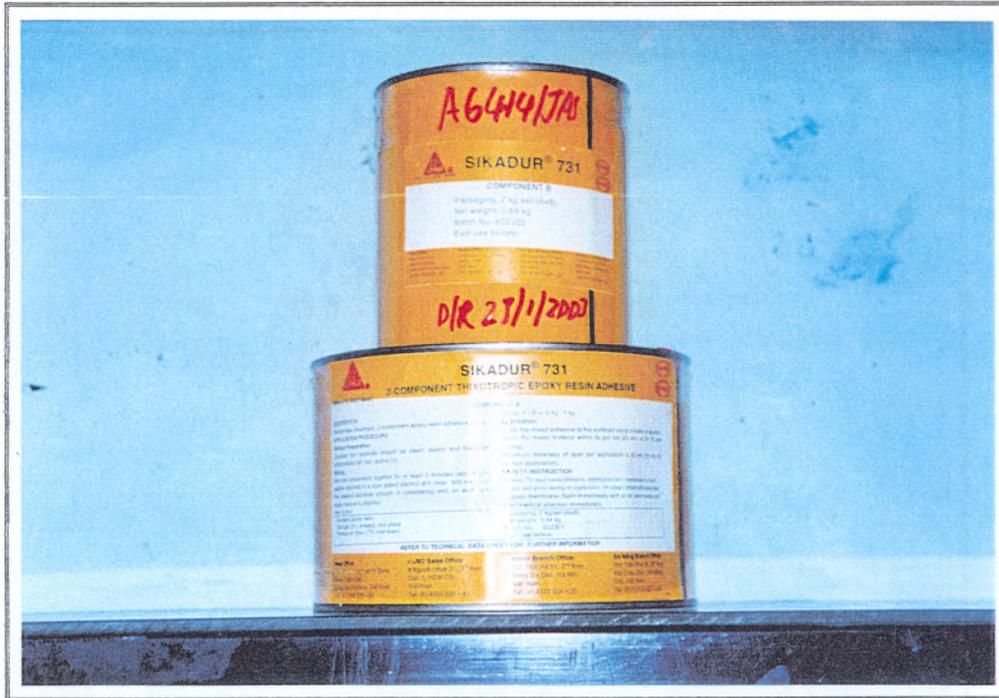
Table 1 : Slant Shear Bond Strength

Sample Reference	Sikadur 731					
Specimen Reference	1	2	3	4	5	6
Bond Area (mm ²)	9116					
Date of Injection	17/02/2003					
Date of Test	19/02/2003			03/02/2003		
Age of Test (days)	2			14		
Slant Shear Bond Strength (N/mm ²)	13.4	13.3	12.7	15.4	16.2	16.2
Average Slant Shear Bond Strength (N/mm ²)	13.1			15.9		
Mode of Failure *	Bond Failure					

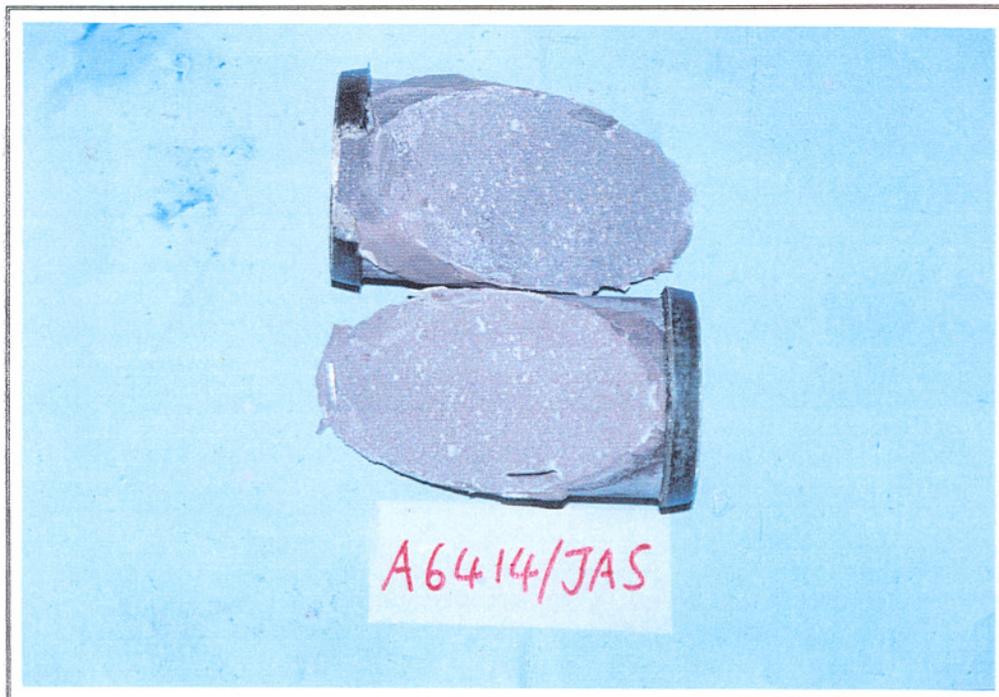
Note : See photographs 2 and 3 for the mode of failure.

Remark : The samples tested meets the requirement as stated in ASTM C881 : 2002
 at 2 days - 7.0 N/mm²
 at 14 days - 10.0 N/mm²



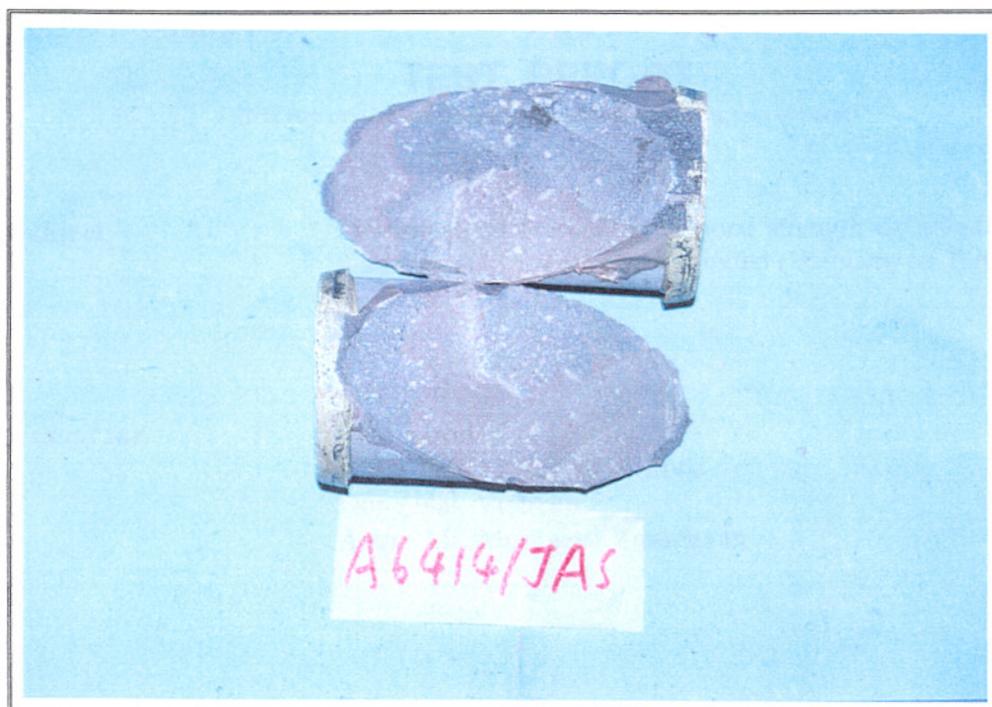


Photograph 1 : Shows a set of Sikadur 731 Epoxy Resin Adhesive as received.



Photograph 2 : Shows bond failure of Sikadur 731 Epoxy Resin Adhesive between the two half-cylinders at 2 days of age.





Photograph 3 : Shows bond failure of Sikadur 731 Epoxy Resin Adhesive between the two half-cylinders at 14 days of age.

