



PAKISTAN COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH

Karachi Laboratories Complex
Off University Road, Karachi-75280

14725

Ref: **ILD/ATR-1573/04**

Date: **18-08-2004**

MATERIALS/PRODUCTS EVALUATION

ANALYSIS/TEST REPORT ON SAMPLES DECLARED TO BE: **Universal Bonding Adhesive ZUBA-16/123**
(From M/s Zahabiya Chemicals)

FROM: **M/s Govt. of Pak. Pak. Agricultural Research Council Southern Zone, Agricultural Research Centre**

NUMBER OF SAMPLES: **01** RECEIVED ON: **02-06-2004**

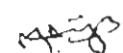
REF: CASE NO: **1573/04**

METHOD AGAINST WHICH TESTED: LAB. CODE: **---**

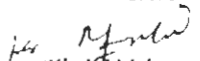
RESULTS

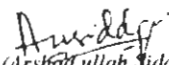
<u>S.#.</u>	<u>Test items</u>	<u>Result</u>	<u>Test Method</u>
1.	Density (25°C)	1.01 gm/ml	D1475
2.	Volatile Content:	48%	D2369
3.	Viscosity: (Brookfield, DV-II, Speed 100RPM Spindle 03, at 25°C)	2020cP	D2556
4.	Brushing characteristics: (Mixing ratio 50:50, sealant:H ₂ O, 30°C)	Easy dragging, No brushing marks appeared, heavy sagging, easy spreading, wet edge time 12 minutes	D2939
5.	Spraying Properties: (Mixing ratio 50:50, Adhesive:H ₂ O, 30°C)	No dry spray, No orange peel appeared, heavy sagging.	D2939
6.	Drying time: - Surface dry - Tack free - Hard dry	10 minutes 75 hours 75 hours	D1640
7.	Hardness: (50% relative Humidity, 30°C)	HB leaves the film uncut, almost no crumble.	D3363
8.	Flexibility: (12.6mm Mandrel, 30°C)	No fracture, No cracking or loss of adhesion.	D3111
9.	Adhesion:	good adhesion	D3359
10.	Resistance to Salt: (4% NaCl solution)	Blistering and rusting appeared	D1647
11.	Degree of dispersion (30°C)	5 my	D1210
12.	Resistance to Humidity: (100% Relative humidity)	No sign of blistering, complete rusting	D2247



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