

**Subject: Test Report of Zahabiya Universal Bonding Adhesive**  
**ZUBA- 16 / 123.**


1. **COLOR** : ZUBA – 16 / 123 is *CHALKY WHITE* in color.
2. **ODOUR** : ZUBA-16/123 has *BAD ODOUR* Dried film is odourless.
3. **SOLUBILITY** : Water was found as best Diluent (Solvent) for ZUBA-16/123.
4. **FLAME TEST** : On burning the sample give red flame, crackling noises and black smoke.
5. **SKIN TEST** : No adverse reaction.
6. **VOLATILE CONTENTS** : The Volatile contents were found 48 %(w/w)
7. **DENSITY** : Density of the sample was found 1.0342 gm/ml.
8. **SPECIFIC GRAVITY** : 1.0280 at 23oC - 28oC.
9. **DRYING TIME** :
  - A. Surface drying : 20 – 25 min.
  - B. Hard dring : 35 - 40 min.
  - C. Tack free drying : 45 – 50 min.
10. **PHYSIO-CHEMICAL BEHAVIOUR** :
  - A. Resistance to mild acids : No bubbling and Rusting.
  - B. Resistance to mild alkali : No bubbling and Rusting.
  - C. Resistance to Humidity : Slight Rusting and Bubbling
  - D. Resistance to Salt spray : Very slight blister. no rusting but color changed from white to brown.
11. **ADHESION** : 100 %.
12. **SPRAYING PROPERTY** : Too thick to spray without diluent.

13. **FLEXIBILITY** : No Cracking was observed.  
 14. **BRUSHING CHARACTERISTICS** :

<b>A. Sags</b>	:	Nil.
<b>B. Brush marks</b>	:	Present.
<b>C. Brush drags</b>	:	Nil.
<b>D. Level</b>	:	Nil.
<b>E. Wet edge time</b>	:	22 Sec.

**OPINION** :

Zahabiya Universal Bonding Adhesive- ZUBA 16/123 is flexible bonding adhesive in ready mixed emulsion state. This product is safe and Non-Hazardous in handling. It **increase the** strength and resistance against mild acids and mild alkalis, also as **an air** entraining agent, seals off the voids and cracks and is usable as **better and** safe, non-flammable, non-toxic, clear adhesive.

  
 Director of Laboratories  
 Defence Science & Tech. Orgn.,  
 34-37, P.N.H. Lines  
 KARACHI

  
 Saeed Sabir  
 RO