

**Subject: Test Report of Zahabiya Sealing Adhesive Coat
ZSAC-10/55.**

1. **COLOR** : ZSAC-10/55 is *LIGHT BLUE* in color.
2. **ODOUR** : ZSAC-10/55 has *AMMONICAL SMELL*. Dried film is Odour less.
3. **SOLUBILITY** : Water was found as best Diluent (Solvent) for ZSAC-10/55.
4. **FLAME TEST** : The sample was burnt with red flame. gave black smoke made crackling noises
5. **SKIN TEST** : No adverse reaction. (Satisfactory)
6. **VOLATILE CONTENTS** : The Volatile contents found 45 % (w/w).
7. **DENSITY** : Density of the sample was found 1.109 gm/ml
8. **SPECIFIC GRAVITY** : 1.102 at 23oC – 28oC.
9. **DRYING TIME** :
 - A. Surface drying : 12 – 15 min.
 - B. Hard drying : 15 – 18 min
 - C. Tack free drying : 35 – 45 min.
10. **PHYSIO-CHEMICAL BEHAVIOUR** :
 - A. **Resistance to mild acids** : Slight Rusting was observed, may be due to seepage of acidic solution.
 - B. **Resistance to mild alkali** : No bubbling and Rusting.
 - C. **Resistance to Humidity** : No Rusting and Bubbling.
11. **Resistance to Salt spray** : Very slight blister. slight rusting was observed

12. **ADHESION :** 100 %.
13. **VISCOSITY :** 1.90 poise.
14. **SPRAYING PROPERTY :**
- | | | |
|---------------------------|---|---------|
| A. Dry spray | : | Nil |
| B. Orange Poels | : | Present |
| C. Susp. Particles | : | Present |
| D. Sags | : | Nil |
15. **FLEXIBILITY :** (Benting at 180o by using conical mandrel.25oC)
No Cracking.
16. **BRUSHING CHARACTERISTICS :**
- | | | |
|-------------------------|---|----------|
| A. Sags | : | Nil. |
| B. Brush masks | : | Present. |
| C. Brush drags | : | Nil. |
| D. Level | : | Nil. |
| E. Wet edge time | : | 55 Sec. |

OPINION :

Zahabiya Sealing Adhesive Coat ZSAC-10/55 is flexible, sealing adhesive in pre-mixed emulsion state. This product is safe and Non-Hazardous in handling. It increases the strength and resistance against mild acids and mild alkalis. Also acts as water proofing agent, usable as the better and safe, non-flammable, non-toxic, clear adhesive.

Defence Science & Technology Organization Labs, Karachi Cantt



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

Suzaija Sabri
Ro.