

## **HEMASTIC – PSA**

### **PRESSURE SENSITIVE ADHESIVE**

#### **CHEMICAL NATURE**

Hemastic –PSA is a water based plasticizer terpolymer dispersion, which is suitable for machine application process. HEMASTIC –PSA has been exclusively developed to suit the requirements of packing industry where pressure -sensitive stickers and labels are required to adhesive to various substrates.

#### **USES**

Adhesive for labeling on pvc, polyester polypropylene, glass, wood, ceramics and fabric.

Used for the manufacture of stickers of paper, pvc, polyester, polypropylene and fabric.

Can be used for manufacture of pressure sensitive carpets and for self -adhesive cotton tape.

#### **COMPATIBILITY**

HEMASTIC –PSA is compatible with practically all poly vinyl acetate based dispersions. High tack of HEMASTIC-PSA can be reduced by the addition of above compounds which ultimately increase the adhesive strength. Polyvinyl Acetate dispersions should not be added more than 15% in HEMASTIC-PSA for excellent pressure sensitive adhesive performance.

The track of HEMASTIC -PSA can be increased by compounding it with suitable plasticizers such as DEP, DOP, Tri-Cresyl Phosphate, Hydrogenated resin derivatives also can be used as trackfiers. Those plasticizers should not be added more than 15 to 20 percent in HEMASTIC-PSA.

HEMASTIC-PSA if used as it is supplied will not require any compounding and performance will be excellent.



### **THICKENERS**

Additions of thickeners will increase the drying time of HEMASTIC –PSA. Thickeners like Corboxy Methyl Cellulose, Polyvinyl Alcohol, Hydroxyl Ethyl Cellulose Sodium Sal of CMC can be used.

### **SOLVENTS**

Aromatic Hydrocarbon solvents like Benzene, Toluene and Easters like Ethyl Acetate and Butyl Acetate etc. can be added in small quantities.

### **PRESERVATIONS**

To prevent microbial degradation suitable preservatives has been added is HEMASTIC –PSA. However, if cellulose thickeners are added or in corporation of fungus through the addition of certain extenders, demands additional does of preservatives. Preservatives like formation, Sodium Benzoate. Phenol can be used.

### **FILLERS**

Fillers are not generally add when screen printing method is adopted, whenever necessary, suitable fillers like chalk gypsum, barrettes, talc quartz -floor, etc. can be used.

### **STORAGE**

HEMASTIC-PSA is non toxic, non flammable during the storage. The handling equipment's should be cleaned immediately with water after use, for easy cleaning. However, dried materials requires solvents like kerosene, Acetone, Ethyl Acetate Benzene, Xylem, toluene, etc. for cleaning.

HEMASTIC-PSA should be stored in plastic, glass or metal with polyethylene liner. It should be stored in a cool dark place, away from direct sunlight.

### **APPLICATION**

HEMASTIC-PSA can be applied by air knife fouler coating, screen printing methods. If required for air knife coating HEMASTIC-PSA can be diluted to desired viscosity. Hemastic PSA can also be used as a pallet gum for circular garment printing machine.

## PHYSICAL CONSTANTS SPECIFICATIONS :

1. Appearance : Milky white free flowing viscous liquid.
2. Solid content :  $55 \pm 1\%$
3. pH : 4-5
4. Viscosity : (Brookfield RVT Sp.No.5.20 RPM) 50-100 Ps.
5. Particle size : Less than 1 micron
6. Free Monomer content : Not more than 0.4%
7. Dry film properties : Glossy, clear permanent high tack flexible.
8. Mechanical stability : Excellent mechanical stability & withstand to high mechanical shear.
9. Electrolyte stability : good electrolyte stability, hence no coagulation when mixed with electrolyte containing materials like extenders & pigments.
10. pH stability : 1 to 14
11. Surface Tension :  $40 \pm 2$  dynes/ CM
12. Shelf Life : 6 months if store in cool & dry place
13. Covering capacity : 225 to 250 sq. ft./ kg.

**NOTE :** The information given in this technical bulletin is based on data believed to be reliable and is given in good faith. We do not guarantee the results to be obtained nor we assure any liability in this respect.