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Hydro-Chromic White

1. Summary

Hydro-Chromic White is a special binder, which changes repeatedly from white to transparent when wetted with water and changes back to the original white when dried, for screen printing onto cotton, polyester, nylon, their blended fabric, nonwoven fabric, and other fabric.

Therefore, through printing the binder over a design, it is concealed with white in dried condition and appears when the binder becomes transparent with water.

Also, the coating is soft to the touch and excellent in water resistant and rubbing strength so for example, the binder is suited to be used for diaper of baby doll. Further, when coloring agent, Neo Color (coloring pigment paste) is compounded with the binder and printed, it is reversibly changed from colored opaque to colored transparent with water and increased the hiding power of the preprinted design.

2. Characteristic

Appearance: White paste

Component: A mixture of acrylic acid ester copolymer emulsion and white pigment.

Viscosity: 30,000-40,000cps (BH Type viscometer at 25°C)

pH: 8.5 ± 0.5

Specific gravity: 1.11 ± 0.05

Solid content: $35 \pm 2\%$

3. Usage

(Standard recipe) Hydro-Chromic White 100 100

Neo Color - ~1

100 101

* For adjusting of viscosity, use Emacol R-600 (within 0.5%) to increase and use a small amount of water (within 5%) to decrease.

(Process) Screen print with 70-120mesh→Dry→Baking 140°C x 3-5min.

4. Note

- ① Adherence fastness of Hydro-Chromic White will differ depending on fabric. Be sure to do pre-test before use. Especially water-shedding fabric is unsuited to be printed since it is inferior in adhesiveness.
- ② Since Hydro-Chromic White has less elasticity, it is unsuited to be printed on stretchable knit (tricot, e.t.c.).
- ③ Hydro-Chromic White should be sealed and stored in cool and dark place under 30°C avoiding freeze. Shelf Life is 6 months (at 30°C)

5. Packing appearance
18kgs