
GS-COAT 6800-55

DESCRIPTIONS

GS-Coat 6800-55 is film coating materials for PET to manufacture metallic yarn or glitters with various colors of dye. It has special curing speed and attachment for film to invent other usage for electronic coating and some special coating thanks to its characteristics

CHARACTERISTICS

- Could be made very smooth and flexible film.
- Has good workability.
- Available with various colors.
- Excellent durability, chemical resistance and water resistance.
- Good slip and attachment for aluminum and base film.

RECOMMENDED USE

- For metallic yarn and glitters
- Electric coating on film
- Special coating on the demand of customer
- Reference for usage

PHYSICAL PROPERTIES

- Appearance : A light white liquid
- Specific Gravity : 0.97±0.05
- Viscosity(KU/25 °C) : 56±2
- Non-volatile content(%) : 54.8±2
- Drying Time(at 180 °C) : 10 Sec.
- Shelf life(at 25 °C) : 6 month
- Slippery properties : excellent
- Adhesion : excellent

WORKING CONDITION

- Direction for coating : Roll coating
- Apparatus : Roll coater, mixer
- Diluent : GS-Coat diluent
- Recoatable : Depend on product
- Dilute ratio(wt. ratio) : GS-Coat:Thinner = 50~70:30~50

PACKING UNIT

- 18 ℓ
- 180 ℓ
- Could be packed on request.

DIRECTION FOR WORK

- Coat properly after mixing well with resin and dye.
- For Dark dye or fluorescence staff, premix with some part of solvent and take time to be dispersed well to even 24 hours and mix with resin and lest amount of solvent.
- Heat on coated film within 8~10 sec, The range of Temp will be 180~190 °C, But for some product on narrow film,

150~160 °C.

- Before using resin, Mix well the resin for its residue.

PRECAUTIONS

- Keep away sources of ignition.
- Keep adequate ventilation in airtight place.
- Tightly seal and store the rest of opened product in a cool and dark place.
- Don't apply when surface or atmospheric temperatures are below 50 degrees F. or when measurable precipitation or freezing is possible within 24 H.
- Take a gas mask and put on the other personal protector in working time.

CAUTION

May cause eye and skin irritation on contact. Inhalation or spray mist may cause respiratory tract irritation. Maybe harmful if swallowed. **Check it!**. Spray mist contains particles that may cause irritation of respiratory tract if inhaled. If this product is spray applied, the use of a **respirator** is recommended. One more, **Keep out of reach of children.**

IMPORTANT The information contained in this publication is, to the best of our knowledge, true and accurate, but any recommendations or suggestions which may be made are without guarantee, since the conditions of use are beyond our control.

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LIMITS

This Sheet covers with the working with **GS-Coat 6800-55** on polyester film.

This Sheet is a kind of standard of operations, so if there a specification for detail work and there are difference in the two documents, It's nice to work according to the specification.

WORKING CONDITION

- Direction for coating a roller coating
- Appliance electric stirrer, coating roll heating chamber, etc.
- Thinner Thinner for GS-Coat
- Number of coatings one
- Dilute ratio (wt. ratio) GS-Coat:Thinner = 50~70:30~50

DIRECTIONS FOR WORK

1. Directions for dye preparation
 - Make dyestuff solution from dissolving proper quantity of dyestuff in GS-Coat Thinner, according to color to want.
 - For this, calculate the dosage of the GS-Coat Resin, thinner and dyestuff according to amount of coated film to want.
 - And than mix the calculated quantity of thinner with dyestuff and stir with electric stirrer.
 - According to wanted color, dyestuffs are various and dosage is different, so select suitable ones from the recommendation of the dye manufacturers.
 - There are some difference of solubility of dyestuff in thinner, so mix well with electric stirrer in sufficient times (at least 30min.).
2. Directions for preparation of coating resin
 - Mix well dyestuff solution with GS-Coat 6800-55 .
 - Agitate with electric stirrer in sufficient times (at least 30min.).
 - Incomplete Mixing may cause to trouble such as spot, stain, and double shade color on coated film, so surely mix well.
3. Directions for GS-Coat 6800-55 coating.
 - Coat on polyester film with coating roller.
 - If it is not suitable coating speed or gaps of two rollers, it may cause to irregular film thickness, white spot, foaming in heating chamber.
 - Cure coating film at heating chamber with proper temperature and time (190~210°C × 10 sec).
 - Low temperature in heating chamber is a reason for incomplete film curing, and discoloration and falling off film in dyeing for coloring or cleaning cloth after weaving.
 - Short curing time also make trouble such incomplete film, so must heat sufficiently (at least 10 sec).

PRECAUTIONS

- Keep away sources of ignition.
- Keep adequate ventilation in airtight place.
- Tightly seal and store the rest of opened product in a cool and dark place.
- Use the specified thinner(GS-Coat Thinner).
- Take a gas mask and put on the other personal protector in working time.

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