

## VINYL INKS

### Technical Data

I. Application : Vinyl Materials, PVC Stickers, PVC film, Polycarbonate Paper , Acrylic, wood, Sintra Boards, flexible PVC, PVC leatherette, Transparent PVC Film, Treated Polyester and other plastic materials

Classification : **Vinyl Satin Ink** – Matte finish with high covering power Screen Printing Process Solvent Ink. **Vinyl Gloss Ink** – Very high gloss finish with high covering power Screen Printing Process Solvent Ink. Applicable for fine detailed prints

Drying Mode : Air Dry

Colors : Gloss, Satin Basic and Fluorescent color, Gold, Silver, Transparent CMYK, Glowlight

II. Other Data:

1. **Vinyl Reducer or Retarder** serves as cleansing agent for the screen, as well as for purpose of diluting your ink, incase the Vinyl ink becomes tacky in the course of the production or to reduce viscosity.

Vinyl Reducer : Quick or fast drying

Vinyl Retarder : Slow drying, suitable for those who are new in vinyl printing or for slower pace production.

Isophorone : Very slow drying. Takes longer for the ink to dry. Suitable for beginner's use or for slower pace production. Normally use for diluting ink only.

2. Vinyl paints are available in **Gloss** and **Satin**. It is advise that when using Gloss paint, it is better not to put the substrate on top of each other unless one is sure that it is dry in order to avoid the printed Gloss vinyl paint from transferring to the other substrate or material already printed.

3. Higher mesh count silkscreen are recommended ranging from minimum of **150 mesh to 420 mesh** depending on the size of print. The smaller the print the higher the mesh count is needed.

4. One must use solvent resistant **Photo Emulsion (Photo Flash SR)** on the screen for contact or for stencil.

5. **Vinyl Varnish** serves as a diluting agent for the vinyl paint incase one wishes to reduce viscosity of the paint with lesser ill effect on the shade and quality of the paint depending on the quantity of the mixture made.

6. **Vinyl Overlacquer** serves as finishing touches to achieve more glossiness on the print. It is overprinted on the vinyl print.

7. Since Vinyl paints are solvent base, one does not have to apply Photo Hardeners on the stencil before printing.

8. **Polyurethane Squeegee** is highly recommended as a tool for printing as this is solvent resistant.

9. **Off Contact** of the frame to the substrate or material of at least One(1) mm or more is recommended to achieve a good quality print.

10. Allow 24 hours curing period for the paint to adhere to the substrate before doing any tape test or rub test if needed to check on the quality or adhesion of print.

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## NYLON INKS

### Technical Data

I. Application : water repellent materials or nylon fabrics such umbrellas, travel bags, sports bag, sportswear, windbreakers and Genuine leather material

Classification : Matte finish Screen Printing Process Solvent Ink

Drying Mode : Air Dry. Fast drying with better bonding power.

Colors : Basic and Fluorescent color, Gold, Silver, Transparent CMYK

II. Other Data:

1. **Nylon Reducer** serves as cleansing agent for the screen, as well as for purpose of diluting your ink, in case the nylon paint becomes tacky in the course of the production or to reduce viscosity.

2. **Nylon Catalyst** is used to improve the adhesion of the nylon ink on the substrate should the Nylon ink fail to adhere too well on the substrate or material. We recommend adding minimum of 5% to maximum of 20% of the Nylon Catalyst to the paint mixture depending on substrate. One has to consume the paint as soon as possible once the Nylon Catalyst is added to the mixture. So it is recommended to only add the Nylon Catalyst during production process.

3. Allow 24 hours curing period for the paint to adhere to the substrate before doing any tape test or rub test if needed to check on the quality or adhesion of print.

4. Higher mesh count silkscreen are recommended ranging from minimum of **150 mesh to 420 mesh** depending on the size of print. The smaller the print the higher the mesh count is needed.

5. One must use solvent resistant **Photo Emulsion (Photo Flash SR)** on the screen for contact or stencil.

6. **Polyurethane Squeegee** is highly recommended as a tool for printing as this is solvent resistant.

7. **Off Contact** of the frame to the substrate or material of at least One(1) mm or more is recommended to achieve a good quality print.

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## SINGLE PACK INKS

### Technical Data

I. Application : high impact plastics, PVC ids materials, Polystyrene type of plastic, Styrofoam, wood , metal, packaging, plastic bottles, stereo casing or other plastic materials.

Classification : Very High Gloss finish with high covering power screen printing process Solvent Ink.

Drying Mode : Air Dry

Colors : Basic and Fluorescent color, Gold, Silver, Transparent CMYK

II. Other Data:

1. **Single Pack Reducer** serves as cleansing agent for the screen, as well as for purpose of diluting your ink, incase the single pack paint becomes tacky in the course of the production or to reduce viscosity.

2. Allow 24 hours curing period for the paint to adhere to the substrate before doing any tape test or rub test if needed to check on the quality of print.

3. We highly recommend to do test print of inks on material or substrate before mass production.

4. Higher mesh count silkscreen are recommended ranging from minimum of **150 mesh to 420 mesh** depending on the size of print. The smaller the print the higher the mesh count is needed.

5. One must use solvent resistant **Photo Emulsion (Photo Flash SR)** on the screen for contact or for stencil.

6. **Polyurethane Squeegee** is highly recommended as a tool for printing as this is solvent resistant

7. **Off Contact** of the frame to the substrate or material of at least One(1) mm or more is recommended to achieve a good quality print.

8. Some Plastic materials may require application of **Treating Agent** to improve adhesion of inks on the substrate or material. It is applied thinly on the substrate or area of print prior to printing. This will treat the substrate or material therefore improving adhesion of ink to the substrate.

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## TWO PACK INKS

### Technical Data

I. Application : Treated polyethylene and polypropylene type of plastics like Shampoo Container, Thick Plastic materials, plastic bottles or material

Classification : Glossy type Screen Printing Process Solvent Ink

Drying Mode : Air Dry

Colors : Basic and Fluorescent color, Gold, Silver, Transparent CMYK

II. Other Data:

1. **Two Pack Reducer** serves as cleansing agent, as well as for purpose of diluting your ink, incase the Two Pack Ink becomes tacky in the course of the production or to reduce viscosity.

2. **Two Pack Catalyst** is used to improve the adhesion of the two pack ink on the substrate should the ink fail to adhere too well on the substrate or material. We recommend adding minimum of 5% to maximum of 20% of the Two Pack Catalyst to the paint mixture depending on substrate. One has to consume the paint as soon as possible once the Two Pack Catalyst is added to the mixture. So it is recommended to only add the Two Pack Catalyst during production process.

3. Allow 24 hours curing period for the paint to adhere to the substrate before doing any tape test or rub test if needed to check on the quality of print.

4. We highly recommend to do test print of inks on material or substrate before mass production.

5. Higher mesh count silkscreen are recommended ranging from minimum of **150 mesh to 420 mesh** depending on the size of print. The smaller the print the higher the mesh count is needed.

6. One must use solvent resistant **Photo Emulsion (Photo Flash SR)** on the screen for contact or for stencil.

7. **Polyurethane Squeegee** is highly recommended as a tool for printing as this is solvent resistant.

8. **Off Contact** of the frame to the substrate or material of at least One(1) mm or more is recommended to achieve a good quality print.

9. Some Plastic materials may require application of **Treating Agent** to improve adhesion of inks on the substrate or material. It is applied thinly on the substrate or area of print prior to printing. This will treat the substrate or material therefore improving adhesion of ink to the substrate.

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## POLYPROPELENE POLYETYLENE (PPE INKS)

### Technical Data

I. Application : Plastic materials made of Polypropelene (PP) and Polyetelene(PE) , or other plastic materials like bottles and Sacks andCar shades made of aluminium foil

Classification : Screen Printing Process Solvent Ink

Drying Mode : Air Dry

Colors : Basic and Fluorescent color

II. Other Data:

1. **PPE ink Reducer** serves as cleansing agent for the screen as well as for purpose of diluting your ink, incase the PP ink becomes tacky in the course of the production or to reduce viscosity.

2. Allow 24 hours curing period for the paint to adhere to the substrate before doing any tape test or rub test if needed to check on the quality of print.

3. We highly recommend to do test print of inks on material or substrate before mass production.

4. Higher mesh count silkscreen are recommended ranging from minimum of **150 mesh to 420 mesh** depending on the size of print. The smaller the print the higher the mesh count is needed.

5. One must use solvent resistant **Photo Emulsion (Photo Flash SR)** on the screen for contact or for stencil.

6. **Polyurethane Squeegee** is highly recommended as a tool for printing as this is solvent resistant.

7. **Off Contact** of the frame to the substrate or material of at least One(1) mm or more is recommended to achieve a good quality print.

8. Some Plastic materials may require application of **Treating Agent** to improve adhesion of inks on the substrate or material. It is applied thinly on the substrate or area of print prior to printing. This will treat the substrate or material therefore improving adhesion of ink to the substrate.

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## CHAROL INKS

### Technical Data

- I. Application : Polyvinyl Chloride type of plastic materials like charol for Banderitas, or other thin sheeted Plastic materials gauge 4.5 type of PVC plastic and other flexible plastics  
Classification : Glossy finish Screen Printing Process Solvent Ink  
Drying Mode : Air Dry  
Colors : Basic and Fluorescent color

II. Other Data:

1. **Charol ink Reducer** serves as cleansing agent, as well as for purpose of diluting your ink, incase the Charol ink becomes tacky in the course of the production or to reduce viscosity.
2. Allow 24 hours curing period for the paint to adhere to the substrate before doing any tape test or rub test if needed to check on the quality of print.
3. We highly recommend to do test print of inks on material or substrate before mass production.
4. Higher mesh count silkscreen are recommended ranging from minimum of **150mesh to 420 mesh** depending on the size of print. The smaller the print the higher the mesh count is needed.
5. One must use solvent resistant **Photo Emulsion (Photo Flash SR)** on the screen for contact or for stencil.
6. **Polyurethane Squeegee** is highly recommended as a tool for printing as this is solvent resistant.
7. **Off Contact** of the frame to the substrate or material of at least One(1) mm or more is recommended to achieve a good quality print.

## RUB OFF/ SCRATCH OFF INKS

### Technical Data

- I. Application : Coated Paper or Plastics used for Scratch Cards promo  
Classification : Screen Printing Process Solvent Ink  
Drying Mode : Air Dry  
Colors : Silver and Gold

II. Other Data:

1. **Scratch off Thinner** serves as cleansing agent for the screen, as well as for purpose of diluting your ink, incase the rub off ink paint becomes tacky in the course of the production or to reduce viscosity.
2. Allow 24 hours curing period for the paint to adhere to the substrate before doing any tape test or rub test if needed to check on the quality of print.
3. We highly recommend to do test print of inks on material or substrate before mass production.
4. Higher mesh count silkscreen are recommended ranging from minimum of **200 mesh to 250 mesh** depending on the size of print. The smaller the print the higher the mesh count is needed.
5. One must use solvent resistant **Photo Emulsion (Photo Flash SR)** on the screen for contact or for stencil.
6. **Polyurethane Squeegee** is highly recommended as a tool for printing as this is solvent resistant.
7. **Off Contact** of the frame to the substrate or material of at least One(1) mm or more is recommended to achieve a good quality print.

## **PVC INKS** **(POLYVINYL CHLORIDE INKS)**

### **Technical Data**

I. Application : Polyvinyl Chloride type of plastic materials like Baller Ids and other rubber plastic materials

Classification : Glossy finish Screen Printing Process Solvent Ink

Drying Mode : Air Dry

Colors : Basic colors

II. Other Data:

1. **Vinyl Reducer** serves as cleansing agent, as well as for purpose of diluting your ink, incase the Charol ink becomes tacky in the course of the production or to reduce viscosity.

2. Allow 24 hours curing period for the paint to adhere to the substrate before doing any tape test or rub test if needed to check on the quality of print.

3. We highly recommend to do test print of inks on material or substrate before mass production.

4. Higher mesh count silkscreen are recommended ranging from minimum of **250mesh to 305 mesh** depending on the size of print. The smaller the print the higher the mesh count is needed.

5. One must use solvent resistant **Photo Emulsion (Photo Flash SR)** on the screen for contact or for stencil.

6. **Polyurethane Squeegee** is highly recommended as a tool for printing as this is solvent resistant.

7. **Off Contact** of the frame to the substrate or material of at least One(1) mm or more is recommended to achieve a good quality print.

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## OTHER CHEMICALS

1. **Treating Agent**- Because of the variety of plastic materials in the market, sometimes not all plastic materials are treated. So this chemical can be applied on the substrate to treat the untreated plastic materials before printing. It must be applied thinly on the area of print to any untreated plastic material to improve the adhesion of ink on the substrates.

2. **Blockout fillers such as Red Filler** are used in omitting unwanted design of the screen by just applying the area one wishes to omit. Clear Filler is transparent in color while the Red filler is red in color.

3. **Emulsion Remover or Stencil Remover 10gms** can be used if one wishes to reclaim the screen, However, the emulsion remover will only work for screens without Photo hardener. Recommend mixture is 1 liter of water for every pack for new stencils. However, if the stencils to be reclaimed are old stocks then we advise to reduce the water to 500ml or even less.

Direction: Dissolve powder or chemical into the water. Then using sponge or old toothbrush, apply circular motion on the screen with stencil. Let stand for about Five (5) minutes then apply strong water pressure on the screen. NOTE: **DO NOT** allow the chemical to dry up on the screen once it is applied, otherwise this will make the stencil even harder to reclaim.

4. **Ghost and Haze Remover** – this chemical removes shadow or previous design left behind from reclaimed stencil. Simply apply the paste type chemical on the area that needs to be cleaned. Within 5 to 10 seconds immediately spray with water. We recommend one uses high pressured sprayer for effective or thorough removal of unwanted shadow.

5. **Screen Degreaser**-this chemical is sprayed on screen mesh prior to application of Photo Emulsion or Stencil solution. It removes dirt, oil or grimes in the screen mesh.



## **DISCLAIMER:**

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