

## C 10540GNS Genesis Base 10680GNS Genesis Plus Base 10000GNS Genesis Half Tone Base

Wilflex Genesis Bases are specifically formulated for high productivity wet-on-wet printing. Genesis Base and Genesis Plus Base have similar print characteristics, but Genesis Plus Base offers a matte finish and more opacity. Genesis Half Tone Base is available to produce Process and Fluorescent colors.

### Highlights

- ▶ Compliant with CPSIA (Consumer Product Safety Improvement Act) 2008
  - ▶ Section 101, Lead Content in Substrates (<300 ppm lead);
  - ▶ 16 CFR, Part 1303, Lead in Paint (<90 ppm lead).
- ▶ Build-up resistant for high productivity printing
- ▶ Printable creamy viscosity.
- ▶ Use to print direct onto fabric or for cold-peel transfers.
- ▶ Satin or Matte finish.
- ▶ Excellent flash properties.
- ▶ Coated and Uncoated Pantone Simulation Formulas are available in 10680GNS Genesis Plus Base.
- ▶ Bases: 10000GNS Half Tone Base -  
To be used for Process colors or high-level fluorescent colors
- ▶ 10540GNS Genesis Base -  
High productivity wet-on-wet printing, moderate gloss.
- ▶ 10680GNS Genesis Plus Base -  
Similar to 10540GNS base, matte finish, more opaque, creamy in bucket

### Printing Tips

- ▶ For best results, follow the recommended Printing Parameters.
- ▶ For one-hit opacity through coarse meshes, use a coating procedure that builds a thick, even stencil to ensure a good column height of ink.
- ▶ Avoid excessive squeegee pressure.
- ▶ For bleed resistance, use an underbase white, such as 11835HT Quick White, 11480HT Bright Tiger, or 11117HT Polywhite.
- ▶ For Cotton fabrics, underbase with 11335WHT Sprint White or 11122WHT Artist Plus White.
- ▶ For cold-peel transfers, use a coated release paper.

### Precautions

- ▶ Perform fusion tests before production. Failure to cure ink properly may result in poor wash fastness, inferior adhesion and unacceptable durability. Ink gel and cure temperatures should be measured using a Thermoprobe placed directly in the wet ink film and verified on the production run substrate(s) and production equipment. It is the responsibility of the printer to determine that the correct ink has been selected for a specific substrate and the application processes meet your customer's standards or specifications.
- ▶ Avoid over flashing as it can result in poor inter-coat adhesion of colors.
- ▶ Avoid polyester-based fabrics where dye migration will occur.
- ▶ The viscosity of GNS inks is designed to enhance opacity and printability. Any alteration of viscosity should be minimized.
- ▶ Stir plastisols before printing.
- ▶ Do not dry clean, bleach or iron printed area.
- ▶ Any application not referred in this product bulletin should be pre-tested or consultation sought with Technical Services Department prior to printing.
- ▶ Email: techserviceswilflex@polyone.com

## Printing Parameters

<b>Opacity</b>	9	
<b>Bleed Resistance</b>	n/a	
<b>Smooth Surface</b>	9	
<b>Flash</b>	9	
<b>Gloss</b>	5	
<b>Printability</b>	8	



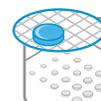
**Fabric Types**  
100% cotton, cotton blends, polyesters, some synthetics



**Mesh**  
Counts: 86 - 355 t/in (34 - 140 t/cm) recommended  
Tension: 25-35 n/cm<sup>2</sup> recommended



**Squeegee**  
Durometer: 60-80, 70/90, 70/90/70  
Edge: Sharp  
Stroke: Medium for opacity. Fast for High Production. Avoid excess pressure



**Stencil**  
Direct: 2 over 2  
Capillary/thick film: 200-400 micron  
Off contact: 1/16" (.2 cm)



**Gel/Cure Temperatures**  
Gel: 230 F (110 C)  
Cure: 320 F (160 C) entire film



**Pigment Loading**  
Use IMS System for Pigment loading levels and Color Formulas.



**Additives**  
Extender: 20% max - 10150FNS Finesse  
Reducer: 3% max - 10025VB QEC Viscosity Buster



**Storage**  
65°-90°F (18°-32°C)  
Avoid direct sun.  
Use within one year of receipt.



**Clean Up**  
Wilflex screen wash



**Health & Safety**  
MSDS: www.polyone.com