



Allureglow USA

Don't be left in the dark

High Solids Acrylic Glow in the Dark Screen Printing Inks

Technical Data Sheet HS-2045	
Wet Ink Tack	Low
After Flash Tack	Low
Printability	Fast with no delays
Surface Appearance	Matt (soaks in)
Opacity/Viscosity	Transparent/Low
Fusion Time	90-180 Seconds Depending on Ink Thickness
Fusion Temperature	320 (160-170 °C.)
Squeegee Hardness	70-80 Durometer
Squeegee Blade	Hard
Squeegee Angle	45°
Squeegee Speed	Medium
Squeegee Pressure	Medium
Mesh Count	86-200
Emulsion	All waterproof capillary films liquid emulsions
Thinner	Water
Thickener	AG-LTS1959
Storage	65°F to 95°F (18° to 35°C). Avoid direct sun
Cleanup	Soap & Water
SDS	HS SERIES
Substrate Type	All Types when CLA-100 additive is used

This Allureglow USA HS-2045 Ink is a Premium High Solids Acrylic, PVC Free Glow in the Dark Screen Printing Ink, designed for Cotton & 50-50 and with the use of our AG-CLA100 Additive you can print on Polyester, Nylon and Stretch Fabrics and much more. This unique Ink looks like conventional colors in normal light and has remarkable glow properties when in darkness. This Ink is an excellent enhancement to any garment that increased visibility would be a benefit.

Directions and Helpful Information:

The Allureglow USA HS-2045 is a Single Component Ready to Use Ink, just mix it up and it is ready to use. Mixing should be done with a high speed drill or drill press using a Type 2 Dispersion Blade. Continue to mix Ink occasionally throughout production run.

Keep lids on containers to avoid contamination and drying of the Ink.

Note: You Must Use the AG-CLA100 at an addition rate of 1.5% by weight added to the Ink when printing on Polyesters, Nylon Lycra and Performance Fabrics. This enables you to reduce curing temperatures to 280°F (138°C). Wash Tests Must Not Be Done Until 48 Hours After Curing.

Use of a White Underbase is a must on Dark Garments. You will sacrifice Glow Intensity and Longevity by not doing so.

For Best Results A Heavy Flood and Slow to Moderate Squeegee Pressure on Automatic Presses and Heavy Flood and Light to Moderate Squeegee Pressure on Manual Presses is recommended. A Print /Flash/Print Method will achieve the best results

Allureglow USA HS-2045 can be printed using 86-200 Mesh Screens depending on the color and amount of glow you are trying to achieve.

Cure Ink at 320°F (160°C) Always Test Dryer Temperatures prior to and during production. Curing Time will be between 90 to 180 seconds, depending on amount of ink deposit and color of garment.

Always perform wash test prior to production, to ensure proper adhesion to the fabric, prior to production runs.

Clean-Up can be done using Soap & Water

Testing and viewing can best be done in a dark room, after charging the print in sunlight for 10 minutes or under artificial light for 30 minutes. Always allow your eyes to adjust for a few minutes after entering the dark room.

For best long term durability wash in cold water on the delicate cycle and wash inside out. Do Not Use Bleach. Do Not Iron on Print. Line or Hang Dry.

Any application not referenced in this Technical Data should be pre-tested prior to any production run is done.

Manufactured By: Allureglow USA and Allureglow USA makes no representation as to the suitability of any given products; it is up to the buyer or user to determine if the product is suitable for the given application.

For additional information Call (888) 493-4569 or email: info@allureglowusa.com

Ink Colors Available

	WHITE/AQUA		WHITE/BLUE
	WHITE/GREEN		BLACK
	BLUE		GREEN
	MAGENTA		ORANGE
	PINK		RED
	VIOLET		YELLOW
	GREEN GLOW BASE		AQUA GLOW BASE
	BLUE GLOW BASE		

Custom Colors Available



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Testing Procedure for Glow in the Dark Inks

When determining if Allureglow USA Glow in the Dark Inks are suitable for your intended application, you will need to fully charge the Ink or Print Sample, by leaving it under artificial light (fluorescent) for approximately 30 minutes or in direct sun light for 10 minutes prior to going to bed. Leave the sample out on your night stand or in a place where it will be visible during the night with the lights off. You will find that the "Initial Glow" after removing the sample from the light source and placing it in darkness is extremely bright. This "Initial Glow" will then begin to reduce gradually over the next few hours until it becomes a visually stable "Afterglow". This "Afterglow" will remain much the same throughout the night, until the room becomes light again in the morning. It is this level of "Afterglow" that will determine if the Allureglow USA Product is suitable for your application. It is most likely that this period of glow is the period that you, the observer, will need to be able to see clearly.

It is important to realize that our eyes take a considerable amount of time to adjust to darkness. The normal time that this takes is around 20 minutes, however it may take substantially longer for some people with visual problems (i.e. Color Blindness). This makes it extremely important that the Photoluminescent products you choose, possess a high "Initial Glow" level and a long and bright "Afterglow".

A common mistake made by people viewing Photoluminescent products is that they will charge the product under light, take it immediately into a dark room and see that it is glowing very brightly (Initial Glow). They will leave the item in the dark room and return to the light. Some time later they will return to the dark room and find that they can no longer see the item glowing (Afterglow). The reason why this occurs, is that our eyes cannot adjust to the light or darkness that quickly. If the person then stays in the dark room, they will gradually begin to see the item glowing as their eyes adjust to the darkness.

Allureglow USA Products have been developed to give both optimum levels of "initial Glow" and very long and bright "Afterglow".

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