



Allureglow USA

Don't be left in the dark

Glow in the Dark Discharge Screen Printing Inks

Technical Data Sheet DC-2045 Glow	
Wet Ink Tack	Tack Free
Opacity/Viscosity	Good/Low
Printability	Excellent
Surface Appearance	Matte
Squeegee Hardness	70-80 Durometer
Squeegee Angle	45°
Fusion Temperature	340°F (170°C.)
Fusion Time	2 to 3 Minutes
Emulsion	Any Waterproof capillary films or Liquid Emulsions
Mesh Count	110-180 MC
Thinner	Water
Thickener	Not Recommended
Storage	65°F to 95°F (18° to 35°C). Avoid direct sun
Cleanup	Wash with Soap & Water
SDS	DC-2045
Substrate Type	100% Cotton
Substrate Colors	All Medium and Dark Colors With Dischargeable Dyes

Allureglow USA DC-2045 Ink is the only Glow in the Dark Discharge Ink on the market today. This unique formulation gives the screen printer the ability to Discharge Print on Any 100% Cotton Garment and achieve a wide variety of both Daytime and Glow in the Dark Colors. **NOTE: Garments must have been manufactured with Dischargeable Type Dyes.**

Use 4-5% of the Discharge Agent to activate the DC-2045 Ink, only mix enough ink that will be used in a 8 hour period. Allow Inks to sit 20-30 minutes after activating. Always mix inks well prior to use. We recommend using a high speed mixer or drill motor with a dispersion blade. Hand mixing or turn-about is not adequate. Keep lids on containers at all times to avoid contamination and drying out of the ink.

Use a water resistant emulsion. Keep image area filled with ink. For extended non-printing times, mist water with spray bottle to prevent drying of the Screen and Ink. Do not allow ink to sit on the screen when not in use.

Allureglow USA DC-2045 Ink can be printed using mesh sizes of 110-180. Use a Heavy Flood and High or Heavy Pressure, doing a Double Pass Method
Note: The use of finer meshes will reduce glow intensity and longevity.

We suggest misting the garment with water prior to final curing. This will improve the overall quality of the cure and will also help prevent burning on lighter colors.

Cure using a Forced Air Type Dryer at 340°F (170°C) over a 2 to 3 minute period, depending on dryer type and thickness of ink deposit. A thicker deposit will take longer to cure as the heat/air must penetrate through the entire ink layer too completely discharge the dye.

Colors will fade slightly after First Washing

Storage: Stable up to 12 months prior to activating if stored below 100 degrees F (65 degrees C) in a closed container. Put a small amount of water on the top of the ink before lid is sealed to help avoid evaporation and the ink drying at the surface.

Allureglow USA DC-2045 Bases Can be used by themselves or in conjunction with Allureglow USA Color Concentrates to Make Different Colors. Consult Color Concentrate Technical Data Sheet for recommended addition percentages.

Clean Up & Disposal: Allow water to evaporate out of ink and dispose of dry material in accordance with federal, state and local regulations. Do not dispose of by means of sinks, drains, or in the immediate environment. Clean-Up can be done using any soap and warm water.

Do Not Dry Clean or Wash With Bleach

Actual Daytime and Glow Colors will vary depending on the percentage of Color Concentrate added and the Glow in the Dark Base Ink Color.

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

Manufactured by Allureglow USA Allureglow USA makes no representation as to the suitability of any given products; it is up to the buyer to determine if the product is suitable for the given application. For more information contact:

Colors Available

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

**Actual Colors Will Vary
Available in Quarts, Gallons
and Five Gallon Containers**



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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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