

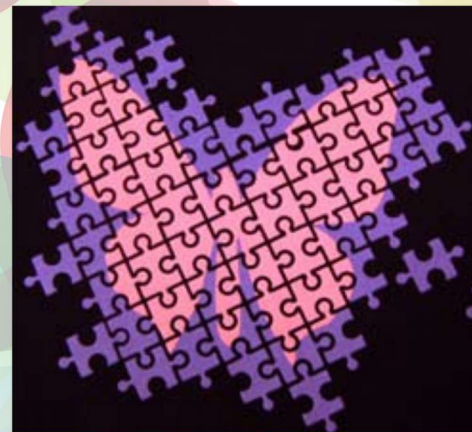
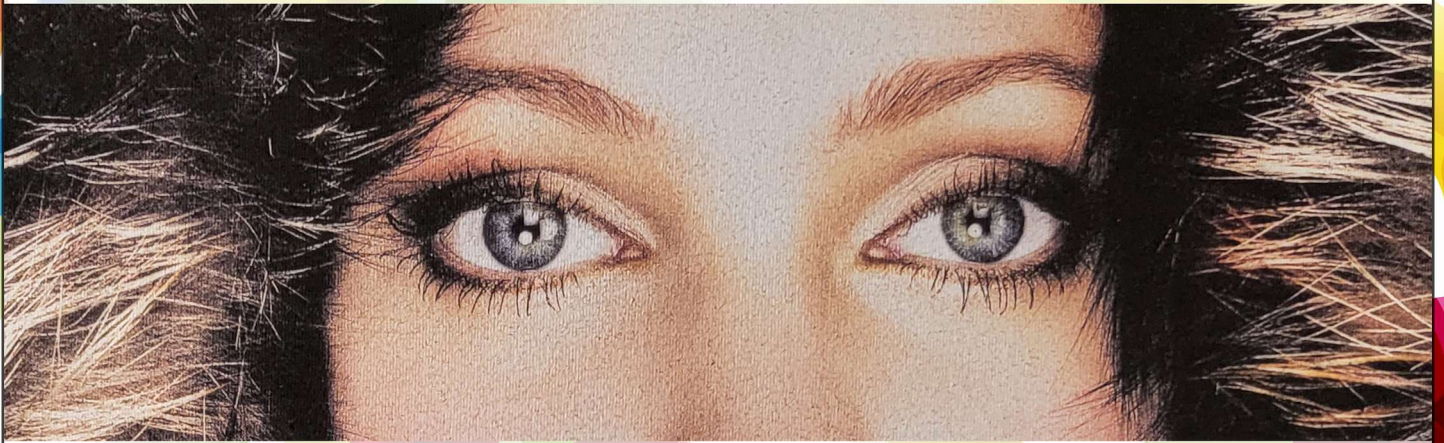
AXEON™

HD DIMENSIONAL INK

As part of our AXEON line of Non-PVC, Non-Phthalate inks, our new 1241 High Density Base and 1243 High Density White special effects inks are formulated to offer the same characteristics as regular plastisol inks and print and behave pretty much the same.

Here are its other attributes:

- Ready to use, easy to print and cures to a very soft, pliable substrate.
- High viscosity, creamy inks that perform well on manual as well as on automatic printers, yet holds a very sharp edge.
- Great for heavy deposits through thick capillary film, 3-D effects and other dimensional prints.



Willox

Willox Graphic Supplies



International Coatings™
Creating Performance Solutions

HD DIMENSIONAL INK

FEATURES

- Part of the Axeon™ line of specialities
- Non-PVC and Non-Phthalate product
- Produce special 3-D, heavy deposit, smooth finished prints
- Prints through thick stencils
- Extremely sharp edges can be produced

NON-PVC HD DIMENSIONAL COLORS

- 1241 HD Base
- 1243 HD White

RECOMMENDED FABRICS

100% cotton and some cotton/polyester blends. Pre-print and test all fabrics for dye migration, ink adhesion, wash fastness and other desired properties before beginning any production.

INK MODIFIERS

Not Recommended

SCREEN MESH

Ink-deposit thickness will be determined by thread size and stencil thickness. For most heavy-deposit screens use a mesh count in the 60 to 110 t/in or 24 to 43 t/cm range. Follow manufacturer's recommended tension for mesh used.

EMULSION

Direct/indirect capillary films should be used. For best results choose a thickness between 200 and 400 microns. Stencil films purchased at required thickness levels allow for better control of ink deposit. Exposure times should be calculated for best results.

SQUEEGEE

70-80 Durometer

CURE TEMPERATURE

325°F (163°C). The efficiency of the oven and length of heat tunnel will determine oven dwell time. Dwell time should be increased with a thick ink deposit. Failure to fuse ink properly may cause cracking poor adhesion and poor wash fastness.

CLEAN-UP

Any environmentally friendly plastisol screen wash.

PRODUCT PACKAGING

Quart, 1 Gallon, 5 Gallon or 30 Gallon Containers.

STORAGE OF INK CONTAINERS

Recommend storage at 65°F to 90°F (18°C to 32°C). Avoid storage in direct sunlight. Keep containers well sealed.

PRODUCT MSDS

Refer to material safety data sheet AXEON

PRINTING TECHNIQUES

Set up the screens as with any print, making sure there is plenty of free mesh around the design. Choose the proper squeegee length and stroke distance for the design dimensions. Select a squeegee of 70-80 durometer. More control can be achieved using double and triple-ply blades. Angle the squeegee to increase deposit. The floodbar should be adjusted to provide maximum stencil loading. When the screen is flooded properly, it will take less effort for the squeegee to transfer the ink.

Use an off contact or peel setting to release ink from the stencil. Off-contact is a critical adjustment. If it is not high enough, the ink will not release from the screen. Set the print and flood speed to the slowest setting; then increase the speed, as the design permits. Apply minimal squeegee pressure; only enough to transfer the ink. Too much pressure will push the ink into the fabric. The idea is to lay the ink on the surface. For maximum height, flash the print and stack on another layer. Depending on the thickness of the first print, additional prints may require increase in off contact. By layering the print, image results are better controlled.

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