

ImageStar 35245 Silicone Masking Black Textile Ink

IMS35245 Silicone Masking Black is an addendum to the ImageStar Silicone ink line which was developed for printing on performance wear and smooth polyester fabrics. The ImageStar Silicone PVC Free ink series exhibits superior elasticity and durability when printed on these demanding fabric types. IMS35245 is developed as a barrier ink film when printing on dye-sublimated polyester garments.

Ink Mixing Instructions:

Catalyst Addition – The catalyst is the key component for curing the IMS35245 Silicone Masking Black. The reaction of the catalyst to the ink results in the cross linking of the silicone components; this cross linking will continue until a completely cured ink film is achieved.

- 3% to 5% by weight of the IMS2200 Silicone Catalyst must be mixed into the IMS35245 Silicone Masking Black prior to printing. The catalyst can be manually weighed and mixed by hand or by using a mechanical mixer.
- The catalyst should be added and mixed with the RFU silicone right before the printing process.
- Only catalyze the quantity of ink you will use during an 8-hour shift of printing.
- The catalyzed ink pot life is primarily determined by ambient room temperature. Higher temperatures result in shorter pot life.
- Extended pot life of catalyzed inks that are not in screen can be achieved by covering the ink container and keeping in a cool location. Do not place containers near flash units.

Retarder Addition – IMS35245 Silicone Masking Black already contains an addition of retarder. The retarder slows the curing process during printing; additional retarder may be needed when printing production occurs in hot environmental conditions or long printing times (>8 hours) are required.

- In most environments, additional retarder will not be required.
- The normal cross linking could begin to occur after about 45 minutes of printing; retarder allows the ink to remain screen stable and printable through an 8-hour shift.
- Use an additional 1% - 3% of IMS2201 Silicone Retarder by weight as needed.

For Use as a Barrier on Dye Sublimated Garments:

Print the IMS35245 Silicone Masking Black as a first down ink layer. Flash, then overprint with white and colors as standard print procedures. The Masking Black is designed to block and absorb the sublimated dyes thus inhibiting these dyes from migrating through and into the white and over print colors.

Printing / Curing Instructions:

After printing, the printed image should be oven cured at 248-284°F (120-140°C) for one to two minutes to ensure full cure and wash fastness. For heat sensitive fabrics or for energy saving purposes, lower temperatures can be used for longer dwell times.

Please reference the ImageStar Silicone Info Guide for more details regarding printing, curing and storage parameters.