











3DSE9090 HIGH SQ EXTENDER BASE

Hi-Square ink, when printed correctly, will produce a print with an extraordinarily thick ink layer that retains sharp edges and crisp, highly detailed definition even after curing. The colors in this series are based on the standard Mix-Opaque colors. This is not a puff ink.

Highlights

-  Holds excellent edge's and corners when printed through capillary film.
-  Can be print / flash/ print layered for additional height.
-  Can be printed on a manual or automatic press.
-  Great ink for innovating new effects.


Printing Tips

-  For satisfactory results with this ink the screen printer must use them in combination with a correctly prepared screen and a carefully adjusted printing technique.
-  Use 60 thread per inch (24 threads per centimeter) monofilament polyester mesh. For best results the mesh should be tensioned to at least 24 newtons per centimeter.
-  To achieve the desired three-dimensional effect this ink must be printed through direct capillary stencils that are at least 400 microns thick. Stencils of 400-700 microns are recommended. (Contact Union Ink for stencil film recommendations).
-  60 mesh is recommended. This mesh will allow for the ink to fill as many screen openings as possible. Dyed mesh will reduce light scatter. Longer exposure times should be expected.
-  There is a direct correlation between the thickness of the stencil and the thickness of the printed and cured three-dimensional ink film. Tests have shown that if you perform every step correctly, you can achieve a cured ink film thickness of about 90% of the thickness of the stencil.
-  See article at <https://www.unionink.com/tips-techniques/print-3-d-garment-graphics/>











Compliance

-  Internationally compliant
-  Non-phthalate
-  <https://www.avientspecialtyinks.com/services/compliance-support>

Precautions

-  The information above is given in good faith and does not release you from testing inks and fabrics to confirm suitability of substrate and application process to meet your customer standards and specifications.

Recommended Parameters

 <p>Fabric Types Cotton and some blends</p>	 <p>Flash & Cure Flash: Pre-heat pallets Cure: 325°F</p>	 <p>Clean Up Standard plastisol cleaners, press wash, or ink degradant</p>
 <p>Mesh Counts: 60/120 Tension: 25n/cm3</p>	 <p>Pigment Loading Use Union Maxopake colors to tint.</p>	 <p>Health & Safety Find safety information here: www.avient.com/resources/safety-data-sheets or contact your local CSR</p>
 <p>Squeegee 80, 70 Profile: Square Stroke: 2+ Angle: 10-20%</p>	 <p>Additives Not recommended</p>	<p>2021, Avient Corporation. Avient makes no representations, guarantees, or warranties of any kind with respect to the information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the information. Avient makes no warranties or guarantees respecting suitability of either Avient's products or the information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the information and/or use or handling of any product. AVIENT MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the information or products reflected by the information. This literature shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.</p>
 <p>Stencil Capillary Film preferred Off Contact: 1/8" (4mm) or greater Emulsion Over Mesh: Coat for desired thickness.</p>	 <p>Storage 65 -95 °F (18 -35 °C) Avoid direct sunlight</p>	