

technical datasheet

Unimatch Colour Matching System [page 1 of 2]**Features**

- Pantone®-licensed matches on lights and underbase white
- Low build-up formulations
- Satin finish and soft hand
- Excellent colour intensity when printed through fine mesh counts.

Application

- For mixing accurate and intense colours
- For wet-on-wet printing on white, light coloured shirts or underbase whites.

General Information

Unimatch is a state of the art, Pantone® licensed opaque mixing system. It containing 15 components, all formulated to create intense, bright colours with low build up.

Unimatch's printing characteristics allow for high productivity printing without build-up problems on both manual and automatic presses. The system features formulas allowing printers the choice of printing through fine mesh counts in order to increase print sharpness and reduce print costs, it has excellent matte down characteristics to help fight fibrillation on light coloured garments, and a pleasing satin finish and soft hand.

Even though Unimatch is formulated for direct printing, it will provide good results as a cold peel transfer ink.

Opacity

Unimatch inks are medium opacity inks used for printing onto underbases and light to medium coloured garments.

Mesh

Unimatch inks are formulated to print through finer mesh counts thus increasing ink mileage and reducing ink costs. Inks mixed according to Unimatch formulas are designed to reproduce PANTONE® colours accurately when printed through a 230 (92 metric) monofilament mesh. See "Printing Instructions" on next page for greater detail concerning mesh counts.

Stencils

Use any direct emulsion or capillary film suitable for plastisol inks.

Additives

Unimatch inks are supplied ready to mix. Since plastisol inks "body up" as they sit in the container you should always stir them well to determine the actual viscosity before adding any reducer. Reducing the ink usually reduces the opacity. If you wish to reduce the ink viscosity use only Reducer PLUS - 9000.

Colour Mixing Instructions

The formulas for simulating the standard PANTONE® "C" (coated) colours are available from Union Ink both in booklet form (the Unimatch Formulation Guide) and in a Windows-based computer program. All that is required is weighing the component colours according to the formulas provided and mixing them together. The formulas are expressed as the percentage by weight of the finished mixture. Using an electronic digital scale and measuring the ink accurately in accordance with the correct formula will help ensure consistent, reproducible colours.

Unimatch inks can be easily stirred by hand. Their unique chemical structure gives a short, firm body when at rest that breaks down and flows easily when mixed or printed.

If you are using the Windows based software all calculations will be computed automatically after entering the amount of ink you desire to mix in the appropriate section of the computer program.

Printing Instructions**White or Light Coloured Fabrics**

Even though Unimatch inks print well through a wide variety of mesh counts, they have been specifically formulated to provide you with the most accurate PANTONE® colour reproductions, printability and soft hand when printed through a 230 (92 metric) polyester monofilament mesh.

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Disclaimer: This product is manufactured under laboratory supervision from the finest raw materials and we feel will perform exactly as represented. Due to production parameters beyond our control, NSDS does not offer any warranty, expressed or implied, on the use of this product. It is the printer's responsibility to test inks and substrates prior to any production run for suitability in the end use environment.

Keep away from heat and open flame. Use with adequate ventilation. Avoid prolonged or repeated contact with skin. Avoid prolonged breathing of vapour or spray mist. Keep container closed when not in use.



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**cape**

tel +27 21 551 3300
fax +27 21 551 1737
email infocpt@nsds.co.za

kwa-zulu natal

tel +27 31 569 1049
fax +27 31 569 1050
email infodbn@nsds.co.za

gauteng

tel +27 11 624 2642
fax +27 11 624 1601
email infojhb@nsds.co.za

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Dark 100% Cotton Fabrics

When printing on dark 100% cotton an underbase should be utilized or alternatively Union's Plasticharge White (if the fabric is dischargeable) through mesh counts between 125 and 230 (48-92 metric). Caution: Dyes used in some newer fashion colours may occasionally fade or "ghost" when in contact with low-bleed inks. Dyes causing this problem include pale blue, light green, shades of gray, tan, and lavender, among others. Fading occurs on both cotton/polyester and 100% cotton fabric. This does not seem to occur on standard garment colours such as red, maroon, green, purple, black, etc. To avoid this problem use only underbases recommended for 100% cotton or place a slipsheet between each shirt as they are stacked.

Dark Cotton/Polyester Blend Fabrics

Because of the always present possibility of dye sublimation / migration when printing on cotton/polyester blend fabrics, only low-bleed white underbases should be used on these fabrics. Your best selection in this situation is Union's PLHT-1070 Diamond White. Mesh count recommendations for Diamond White is 125-200 (48-80 metric). Underbases printed through finer meshes may hamper the bleed resistant properties of Diamond White.

Curing Instructions

Plastisol inks will not air dry and must be heat cured. Unimatch inks will fully cure and withstand repeated washings when the entire ink deposit reaches 300° F (149° C).

Wash-Up

Mineral spirits or any screen wash designed for plastisol inks.

Washability

Excellent when fully cured. Do not dry clean or iron printed areas.

Storage

Store plastisols at room temperature. Prolonged exposure to high temperature can make the ink start to gel.

Caution

Always test this product for curing, adhesion, crocking, opacity, washability and other specific requirements before using in production.

[end]

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tel +27 21 551 3300
fax +27 21 551 1737
email infocpt@nsds.co.za

kwa-zulu natal

tel +27 31 569 1049
fax +27 31 569 1050
email infodbn@nsds.co.za

gauteng

tel +27 11 624 2642
fax +27 11 624 1601
email infojhb@nsds.co.za