

Union EF Mixopake Plastisol (MIXE)

Type

The Mixopake ink series consists of 12 opaque standard colors and 7 fluorescent colors that can be used to mix and print PMS and Union colors on dark and light cotton and cotton/polyester blends.

Application

Developed mainly for printing dark and light T-shirts, sweatshirts, etc. Can be used on cotton and cotton/polyester blends.

General

The Mixopake ink series is both very opaque and pliant, in use as well as print, thanks to its unique composition. It can be used on both dark and light materials. Because of these qualities and the possibility to mix colors from the Pantone system, these inks are a great staple for every screen printer. Color recipes for light and dark materials can be found on the Union Ink website. Can be used on T-shirt carousels and multi-color printing machines because of the minimal amount of build-up on the screen.

Drying

After printing, Mixopake inks should be fixated thermally. The ink is fixated when all the ink and the material to be printed reach 150°C. Duration of fixation depends on layer thickness of the ink, thickness of material and type of drying tunnel. A guideline is 2-3 minutes at a temperature of 150°C. For indirect prints, dry for 2 minutes at 120 °C.

Always check the result after fixation, and do not blindly trust the thermometer of your equipment. Temperature strips can be a very useful tool to determine the right fixation temperature under your working conditions.

For a quick check, the material and print can be stretched after having cooled down. If the print returns to original state without having cracked, it can be assumed that the ink has been properly fixated. Wash the material according to the instructions to check whether material and print are resistant to washing repeatedly, as should be the case when ink has been fixed completely.

Chemical resistance

The Mixopake inks are resistant to detergents, soap, mineral oils and sea water. They are not resistant to aggressive aromats and ketones, strong acids and lyes.

Transfers

Coldpeel: is possible when using a transfer paper that releases easily.

Hotpeel: is possible after adding 15% Mixopake transfer additive to the ink. Transfer for 8 seconds at 190-210° C.

Thinners

Mixopake plastisol inks are delivered ready-to-use. If necessary, the inks can be thinned with **PLRE 9000 Viscosity Reducer** or max 1% of **PLUE 9100 Concentrated Viscosity Reducer**. It is not possible to use any other thinners.

Additives

Union ink has multiple additives available that can be used to adapt the plastisol inks to your needs.

Flow additive: enhance ink flow and build-up

Puff additive: transparent ink that can be used to create a 3D effect

Nylobond bonding agent: improves adhesion, especially for use on nylon but can be used on other materials. Can also be used to prevent pilling of fabric through the ink. Use 10-15%.

Mesh

All color recipes for dark materials are tailored to 29-120 T mesh when directly printed onto black materials.

Bleeding

Since dark blended cotton/polyester fabrics can be prone to bleeding, **PLHT 1070 Low Bleed Diamond White** can be printed onto the fabric, before printing colors over the white using 34 - 77 T mesh. Drying time in between the layers is dependent on the layer thickness, but is usually around 4-6 seconds.

For white or light colored fabrics, 10-50% **Mixopake 9070 Soft hand base** can be added to lower the opacity of the colors.

Ink transferring

Depending on the material to be printed, if the colors 3002 Red Y/S and 2042 Yellow R/S are used to print without being mixed with other colors, we recommend mixing it with at least 10% **Mixopake Extender Base** to prevent transferring of the color.

Unistretch UNST 9160

Unistretch Clear 9160 can be added to each plastisol ink to improve elasticity of the ink. It is therefore suitable for printing of stretchy fabrics such as Lycra. Add max. 35% of the mass to the ink. If adding to low-bleed inks, keep in mind that the ink might bleed a little.

Washing fastness

Great washing fastness at 40° C. Wash inside out to prevent mechanical damage.

Not resistant to dry cleaning. Only iron printed parts from the backside. Aggressive detergents might cause oxidation in metallic colors such as gold and silver.

Mesh cleaning

We recommend using Screenwash LOD or Screenwash GA.

Test prints

Please, continually make test prints before moving on to printing the complete order.

This technical information is meant to be a guideline. Even though the information is given after detailed examination and to the best of our knowledge, AGA Color Solutions Europe b.v. can take no responsibility for it.



1000 Super White



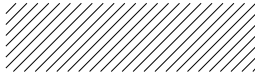
8000 Black



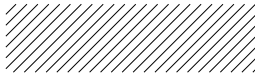
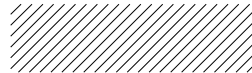
9070 Soft Hand Base



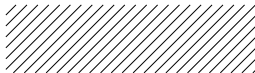
9090 Extender Base



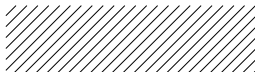
2002 Yellow G/S
(± pms 107C)



2042 Yellow R/S
(± pms 7548C)



3002 Red Y/S
(± pms 1788C)



3007 Red B/S
(± pms 1945C)



4003 Cerise
(± pms 2063C)



4001 Magenta
(± pms 2082C)



4002 Violet
(± pms 2695C)



5003 Blue R/S
(± pms 2126C)



Blue G/S
(± pms 301C)



6002 Green
(± pms 3285C)



Orbit Yellow (fluor)



Golden Yellow (fluor)
(± pms 804C)



Inferno Orange (fluor)



Flame Orange (fluor)



Missile Red (fluor)
(± pms 805C)



Aurora Pink (fluor)
(± pms 806C)



Neon Magenta (fluor)
(± pms 807C)



Neon Purple (fuor)



Solar Blue (fluor)
(± pms 801C)



Traffic Green (fluor)
(± pms 802C)