



Mutoh Water Based Direct Disperse Ink For Direct Textile Printing



Mutoh Water Based Direct Disperse ink (**RJ80DD-100-xx**) allows direct printing onto polyester fabrics with open or closed structure.

After printing, the colours will still look dull, as the inks are not yet fixed onto the polyester fabric. To release the full colour vibrancy and reveal the excellent light, wash and perspiration fastness characteristics of the inks, the printed fabric still requires a heat fixation treatment. To fix the inks, one can choose between a pressure-free heat fixation system or a calender.

This ink can be used for application possibilities such as soft signage, flags, wall murals, trade-show exhibits, fashion textile, shop awnings, outdoor advertising, home furnishings, curtains, cushions, ...

Mutoh's Water Based Direct Disperse inks come in 4 colours (CMYK) and are available in 1 litre bottles.

Key advantages of Mutoh's Water Based Direct Disperse inks are:

- No extra steps to transfer the print onto the fabric (prints directly onto the fabric – paper free workflow).
- No need to perform a follow up washing treatment to see the vivid colours.
- Suitable for outdoor applications (6 months – 1 year)

Intended For

- Viper TX 65/90
- Viper TX 65/90 Extreme
- Viper TX 100
- Viper TX Soft Sign

Ink Durability

Mutoh's Water Based Direct Disperse inks have been thoroughly tested for their durability. Please find below a short explanation of the conducted tests according to ISO standards.

Light fastness ?

Purpose: Evaluate the resistance of an output on polyester fabric towards the effect of sunlight.

Light Fastness: rating 1-8, 8 = best

Colour fastness towards washing ?

Purpose: Evaluate the colour fastness of an output on polyester fabric towards the effect of washing.

Wash fastness: rating 1-5, 5 = best

Colour fastness towards perspiration ?

Purpose: Evaluate the colour fastness of an output on polyester fabric towards the effect of perspiration.

Perspiration fastness: rating 1-5, 5 = best



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(RJ80DD-100-xx)

TEST RESULTS – INK DURABILITY:

ISO STANDARD:		EN ISO 105B02	EN ISO 105C02	EN ISO 105E04
Colour	Part N°	Light fastness	Wash fastness	Perspiration fastness
Yellow	RJ80DD-100-YE	7	4 -5	4 -5
Magenta	RJ80DD-100-MA	6 - 7	4 -5	5
Cyan	RJ80DD-100-CY	7	4 -5	4 -5
Black	RJ80DD-100-BK	6-7	4 -5	5

Please note that textile products must have an authenticity or colour-authenticity, if they want to achieve their purpose. This authenticity cannot only be attributed to the ink, but apply for a certain colour/ink fixative in a certain textile. The kind of combination and the strength of the combination between the colour/ink and textile will guarantee the authenticity.

What is the outdoor durability?

You will notice that in many cases, for textile applications, ink manufacturers limit themselves to giving a quality indication of the used colorants.

We have put our samples through similar testing as we do for the outdoor durability of our solvent inks, allowing us to make outdoor life expectation statements.

Outdoor Durability: 6 – 12 months (*)

() The results are based on accelerated Xenon tests for Northern European conditions. For 100% solid blacks, the durability is rated up to 6 months. Outdoor durability is influenced by the fabric type, the fabric pre-treatment, the chosen print mode and the ink fixation conditions.*

Does the ink qualify as environmentally friendly?

Yes, because our Water Based Direct Disperse Ink is a water based ink, no harmful VOCs are being released during printing. The ink is perfectly safe to use, since it requires no health and safety labels.

Does this ink comply with any important regulations?

The ink components are pre-registered for REACH.