

*The idea of Amtex
Is all here ...*

Amtex[®]
Dye-Chem Industries

Differentiate Yourself

MIIND EQI[®]
REACTIVE INKS

High performance inks for
industrial ink jet printing



Established in 1992, **Amtext** has emerged to be a pioneering manufacturer and supplier of reactive dyes that is constantly driving success owing to their valuable 3Es - Experience, Expertise, and Excellence.

Having 30+ years of extensive experience, **Amtext** developed reactive inks to illustrate a wide colour space in industrial ink jet printing for cellulose fibres. The **MIIND EQI**[®] Reactive inks optimized for Kyocera, Epson, Konica Minolta, Ricoh, Seiko and more.

We offer tailor-made inks in a wide variety of colours and finishes to suit the modern day design and performance requirements.



WHY TO CHOOSE MIIND EQI® REACTIVE INKS

The secret of success is a mix of research, deep knowledge in digital textile printing process and long experience in engineering the inks manufacturing process.

- **The starting point is the high-quality Colour base raw material by the highest degree of purity** manufactured by AMTEX. This is an indispensable criterion determining stability, printability and colour performances.
- **Electrolytes content is another significant part of the formulation.** The electrolytes content, above all chlorides, sulphate, calcium and magnesium significantly influences stability, printability and lower wear of printheads. The electrolytes content in Our inks is very low compared to other inks within the market.
- Our Black colour strength offers neutral shade, high optical density and wider gamut allowing to reduce the ink usage obtaining exceptional printing output. It allows to reproduce a wide colour palette, which displays shades of deep and vibrant tones and semitones, as well as brightness.
- The obsessive attention to above parameters has led to achieve a higher open time reducing downtime, due to the cleanings, as well as the consequent ink consumption, assuring higher productivity.
- **Waveform settles** the interaction between ink and printhead by influencing the quality of the drops, more specifically the landing place accuracy, the fall speed, the trajectory and the satellite drops formation. Only by a bespoke waveform it is possible to control these parameters avoiding overspray issues, thus achieving top-quality printing results.
- In order to be consistent with our sustainable approach, **MIIND EQI® has passed all the tests achieving the ECO PASSPORT** and it has been loaded in the **ZDHC - level 3** gateway.
- We are open to satisfy all the requests in terms of eco standards and certifications our partners are looking for.
- With the new series we offer an unmatched solution in terms of reliability, lower wear of printheads and a reduction of the required cleanings.

AMTEX SOLUTION FOR DIGITAL PRINTING

With reliable printing performance and high reproducibility, our offer of **MIIND EQI®** reactive inks for digital printing on cotton, viscose and silk will not only enhance your business opportunities in this fast growing market segment but also make your production more environmentally sound.

Amtex's reactive digital printing ink has been formulated to suit as inkjet inks in a variety of leading industrial print heads such as **Kyocera, Epson, Fuji, Mimaki, Ricoh, Seiko, Xaar, Konica & Minolta, and more.**

Amtex digital inks series have been developed in few years and thanks to the constant synergy between laboratories and team on-field, **MIIND EQI®** inks perfectly match the most used printing technologies heads.

Ink Brands	Printhead
MIIND EQI® HS-R	Kyocera KJ4B
MIIND EQI® EP-R	Epson DX4/ DX5
MIIND EQI® KM-R	Konica Minolta KM1024MAE/1024SAE/512MAE
MIIND EQI® FJ-R	Fujifilm Starfire 1024 II Seiko RC1536GS/SPT1020 II Ricoh Gen5/Gen6/GH2220

Technical Information	
Substrates	Cotton, Silk, Viscose rayon, Linen and lyocell
Jetting Temperature	32° C
Recommended Relative Humidity	50%-60%
Shelf life	12 months if stored under recommended conditions
Environmental Conditions	Inks must be stored out of direct sunlight and away from heat sources

MIIND EQI® available in following colours



CYAN



MAGENTA



YELLOW



BLACK



ORANGE



RED



GREY



BLUE



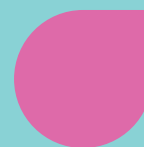
DEEP BLACK M



DEEP BLACK V



SKY



PINK



PROCEDURES

Prepadding as per below recipe

Component	gpl
Thickener (alginate)	100-150
Reduction Inhibitor	10-20
Alkali (Na ₂ CO ₃)	40
Hygroscopic agent (urea)	100-200

Drying (below 120° C)

Printing

As per instructions issued by the manufacturer of the ink jet printer.

The optimal printing conditions are:

- temperature 22–25° C/68–77° F,
- humidity > 60%.

Mild Drying

Steaming

- For Cotton or Viscose, Steam at 102° C/216° F for 7-10 min
- For Silk, Steam at 102° C/216° F for 10-12 min

Washing Off












The composition and sequence of treatment baths depend on the machinery and fabric available.

Cotton/Viscose/Silk

- Rinse 5 min with cold water
- Soap for 5 min at 98° C/210° F with 2 g/l with soaping agent
- Rinse for 3 min at the boil rinse warm/cold

Fastness Properties

MIIND EQI® INK FASTNESS LEVELS

MIIND EQI® Range	SHADES	LIGHT ISO 105-B02	WATER (ISO 105-E01)	WASHING 95 C, E1S (ISO 105-C06)	CHLORINE WATER (20 PPM) ISO 105-E03	PERSPIRATION ISO 150-E04	
			Ch/CO/WO	Ch/CO/WO	Ch	ALKALINE	ACID
CYAN		5-6	5/4-5/4-5	4-5/4/4	3	5	5
MAGENTA		4	5/5/5	5/5/4-5	4	5	4-5
YELLOW		6-7	5/5/5	5/5/5	4-5	5	5
BLACK		5	5/4-5/4-5	5/4-5/4-5	4	4-5	4-5
ORANGE		4	4/4/4	4-5/4/4	4	4-5	4-5
RED		4	5/4-5/5	5/4-5/5	4-5	5	5
GREY		3	5/5/4-5	5/5/4-5	4	5	5
BLUE		6	5/5/4-5	5/5/5	3-4	5	5
DEEP BLACK M		5-6	5/5/4-5	5/5/4-5	4-5	5	5
DEEP BLACK V		4-5	4/4/4	5/4-5/4-5	3	4-5	5
SKY		6	5/5/4-5	4-5/5/5	3	5	5
PINK		4	5/4-5/5	5/5/5	4-5	5	5

Please note that ink performances can vary according to the type of substrate used in the final application.



N° GOTS-C 805475-01-2023



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GST No. : 24AADFA0481G1ZY

This Dyestuff selection / Recipe / Information is made in order to meet, excellent dyeing performance backed by excellent reproducibility. However cannot be extended to cover every possible case. So please confirm the recipes & respective fastness on your end. This is intended to service as non-binding guidelines.



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