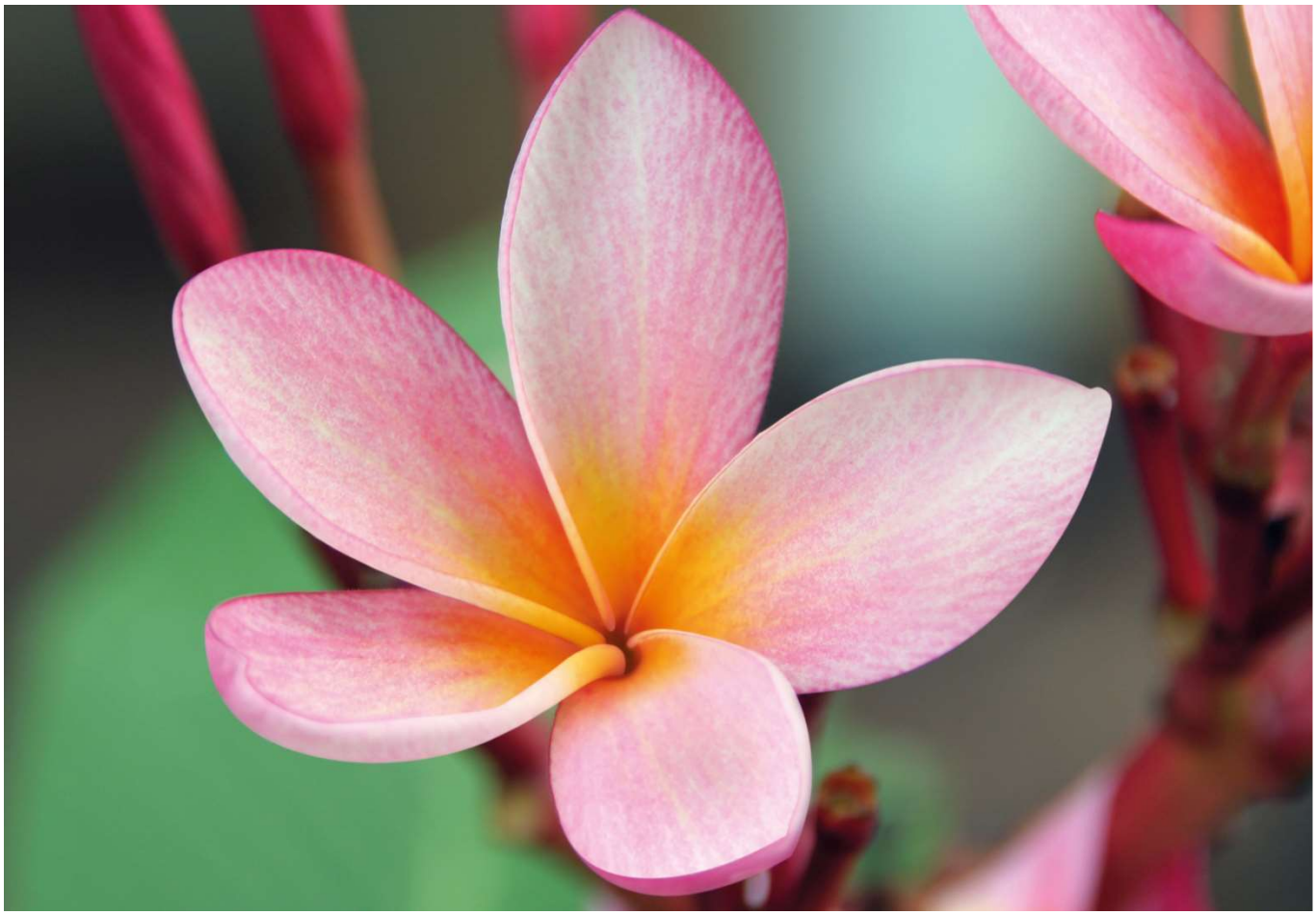


Digital Disperse Printing

TUBIJET D – Product Portfolio, Process and Recipe

CHT
SMART CHEMISTRY
WITH CHARACTER.

TUBIJET D – MORE BRILLIANT!

TUBIJET DU 02

Dissolved antimigration agent

Product features:

- Brilliant and dark shades
- Improved sharpness of prints
- Soft handle

TUBIJET SHARP D 201

Cationic antimigration agent

Product features:

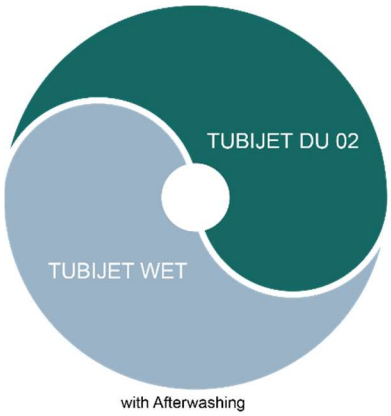
- Improved sharpness due to coagulation
- Prevents dye migration
- No staining

TUBIJET VDK

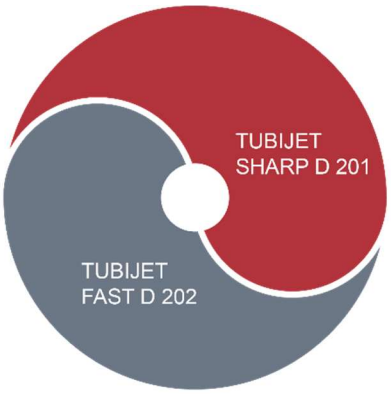
Organic nitrogen compound

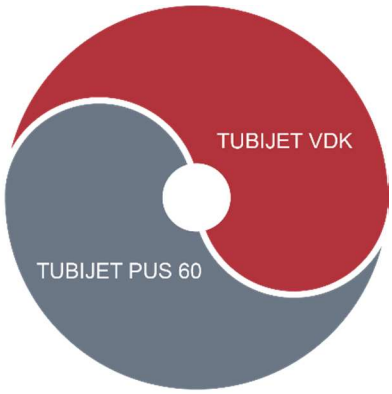
Product features:

- Great print sharpness due to salting-out of the ink
- Flame retardant effect
- Non-yellowing



with Afterwashing





without Afterwashing

TUBIJET WET

Anionic wetting agent

Product features:

- Improves the print evenness
- Improves the reproducibility
- Good washable

TUBIJET FAST D 202

Cationic polyurethane binder

Product features:

- Good compatibility with cationic polymers
- Transparent and elastic
- Non-yellowing

TUBIJET PUS 60

Polyurethane binder

Product features:

- Good compatibility with salts
- Transparent and elastic
- Non-yellowing

PROCESS

Digital disperse printing is the preferred printing technology for POLYESTER SUBSTRATES. Recommended for a wide range of applications in large format printing for advertising, home decoration, outdoor and automotive applications.

Strictly speaking, there are TWO PROCESSES that need to be distinguished:

A) WITH AFTERWASH

If you wash after printing, you need primer components such as TUBIJET DU 02. An additional wetting agent like TUBIJET WET provides for an optimum wetting of voluminous substrates. Both products are excellently suited for the later washing process.

B) WITHOUT AFTERWASH

For print products without an afterwash process, salt containing or cationic primers such as TUBIJET VDK or TUBIJET SHARP D 201 keep the ink on the surface and simultaneously improve flame resistance. Compatible binders like TUBIJET PUS 60 or TUBIJET FAST D 202 increase the adhesion on polyester and provide a pleasant handle.

For the DIGITAL DISPERSE PRINTING we recommend the use of high quality substrates. In particular, the washing out of spinning oils and pre-fixing at high temperature are important for consistently high print quality. Our TUBIJET D primers then allow a homogenous printed image and a considerable improvement in fastness properties.

Products of the TUBIJET D series are developed IN ACCORDANCE WITH OEKO-TEX®, GOTS 5.0, bluesign® and Zero Discharge of Hazardous Chemicals (ZDHC). They are free of formaldehyde, alkylphenol ethoxylates (APE), adsorbable organic halides (AOX) or heavy metals like tin.

If you have questions, please CONTACT US! We gladly support you with our technical know-how and our experience.

RECIPE RECOMMENDATIONS

Recipe with afterwash:

	TUBIJET DU 02	125 g/l
	TUBIJET WET	1 g/l

Recipe without afterwash:

	TUBIJET VDK	80 g/l
	TUBIJET PUS 60	20 g/l

Especially for dense woven substrates without afterwash:

	TUBIJET SHARP D 201	80 g/l
	TUBIJET FAST D 202	20 g/l

Afterwash:

	Water		30 °C
	PRINTOBLANC P 300 Sodium hydroxide solution 30 °Bé Hydrosulfite	1.0 g/l 4.0 ml/l 2.0 g/l	60 °C
	PRINTOBLANC P 300 Sodium hydroxide solution 30 °Bé Hydrosulfite	0.5 g/l 2.0 ml/l 1.0 g/l	70 °C
	PRINTOBLANC P 300	0.5 g/l	60 °C
	Water		40 °C
	Acetic acid 30 %	1.0 ml/l	30 °C

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