



TEXISIL

EPTAINKS

TOPICS

WHY PRINTING WITH SILICONE INKS

SILICONE INK FEATURES

STRONG POINTS

ADVANTAGES FOR THE ENVIRONMENT

TEXISIL RANGE

TEXISIL AUXILIARES

USUAL INCONVENIENTS AND THEIR SOLUTION



WHY PRINTING WITH SILICONE INKS

- They enable to achieve prints complying with the most severe restrictions in terms of ECOLOGY and SAFETY FOR THE USERS
- They enable to achieve PRINTS WHICH ARE PVC, PHTHALATE AND FORMALDEHYDE FREE
- They allow to achieve EXTREMELY ELASTIC PRINTS
- They allow to achieve PRINTS FOR SPORTSWEAR
- They allow to achieve SPECIAL EFFECTS PRINTS
- They make printing possible onto such substrates, being sensitive to HIGH TEMPERATURES

SILICONE INKS FEATURES

Silicone inks are BI-COMPONENT products for Pigment Screen Printing.

The term BI-COMPONENT means that such inks need a specific catalysts to be cured; otherwise, the process cannot occur.

The special feature of Silicone inks is that they do not dry at room temperature, like plastisol inks and unlike water-based ones.



STRONG POINTS

ADVANTAGES FOR THE ENVIRONMENT

- PVC-FREE
- COMPLIES WITH THE MOST RESTRICTIVE ECOLOGICAL STANDARDS

PRINTING FEATURES

- VERY HIGH ELASTICITY
- BRIGHT COLOURS
- ANTI-FOIL EFFECT



ADVANTAGES FOR THE ENVIRONMENT

OEKO-TEX®

A free certification system, which is “worldwide” recognized by the international textile world, examining the production cycle for the manufacturing of the article in its wholeness: from raw materials to finished products during all processing phases. The certification system applies to all textile products and toys made of fabric.

OEKO-TEX®: THE WORLD WIDE TEXTILE STANDARD.

The certification system applies to:

1. **FINISHED GARMENT:** Oeko-Tex® Standard 100
2. **PROCESS AND PRODUCTION SITES:** Oeko-Tex® Standard 1000
3. **BOTH:** Oeko-Tex® Standard 100 Plus

CERTIFICATIONS ARE ALWAYS AND EXCLUSIVELY REFERRED TO THE ARTICLE.
IT IS NOT POSSIBLE TO CERTIFY SUBSTANCES OR PREPARATIONS



ADVANTAGES FOR THE ENVIRONMENT

OEKO-TEX®: APPLICATION FIELDS & NORM SPECIFICATIONS

The Oeko-Tex® Standard 100 refers to articles and states that: the more a finished garment is in contact with the skin – considering its sensitivity –, the more restrictive are the limits imposed by the standard. The classes listed in the Regulations are four, like the threshold values of interest:

CLASS I

To this class belong textiles and textile toys designed for children up to 3 years. Some articles included in this class are: underwear and bed linen, rag dolls and so on.

CLASS II

To this class belong textile products having a large part of their surface in direct contact with the skin; they are designed for children above 3 years as well as for adults. Some articles included in this class are: underwear and bed linen, towelling articles in direct contact with the skin and wearing apparel such as T-Shirt and shirts.

CLASS III

To this class belong textile products that are not in direct contact with the skin or are in contact with a small area, such as coats and jackets.

CLASS IV

To this class belong textile products designed for Interior Decoration such as wall paper, furnishing fabric, table linen, carpets and wall coverings.



TEXISIL RANGE

CATALYST FOR AUTOMATIC PRINTING

TEXISIL CATALYST

CATALYST FOR MANUAL PRINTING

TEXISIL CATALYST SUPER FAST

TRANSPARENT

TEXISIL
CLEAR BASE

WHITE

TEXISIL
WHITE EXTRA

TEXISIL
WHITE 3D

TEXISIL
MATT WHITE

BASES

TEXISIL
OPAQUE BASE

TEXISIL OPAQUE
MATT BASE

FASHION EFFECTS

TEXISIL
PUFF BASE

PIGMENTS

TEXISIL
PIGMENT



LIGHT FABRIC



DARK FABRIC



TEXISIL RANGE

TEXISIL CATALYST

- CATALYST FOR TEXISIL SERIES
- USE PERCENTAGE = 7-10%
- POT LIFE (MIXTURE) = 8 HOURS
- CURING CONDITIONS (MIXTURE) = 130°C FOR 3 MIN.
- INDICATED FOR AUTOMATIC PRINTING

INKS	TEXISIL CATALYST
TEXISIL CLEAR BASE	+ 10%
TEXISIL WHITE EXTRA	+ 7%
TEXISIL WHITE 3D	+ 7%
TEXISIL MATT WHITE	+ 7%
TEXISIL OPAQUE BASE	+ 7%
TEXISIL OPAQUE MATT BASE	+ 7%
TEXISIL PUFF BASE	+ 7%

TEXISIL CATALYST SUPER FAST

- CATALYST FOR TEXISIL SERIES
- USE PERCENTAGE = 3-5%
- POT LIFE (MIXTURE) = 3 HOURS (maximum)
- CURING CONDITIONS (MIXTURE) = 90°C FOR 2-3 MIN.
- INDICATED FOR MANUAL PRINTING



TEXISIL RANGE

TEXISIL CLEAR BASE

- INK FOR LIGHT SUBSTRATES
- HIGH ELASTICITY
- PRINTABLE WITH MESH UP TO 77 Th/cm (195 Th/inch)
- ANTI-FOIL EFFECT
- INDICATED AS A BINDER FOR POWDERS & GLITTERS
- IINDICATED FOR 3D EFFECTS

AUTOMATIC PRINTING

100% TRANSPARENT BASE

10% CATALYST

TEXISIL CLEAR BASE

TEXISIL CATALYST

+ 1/5% **TEXISIL PIGMENTS**

MANUAL PRINTING

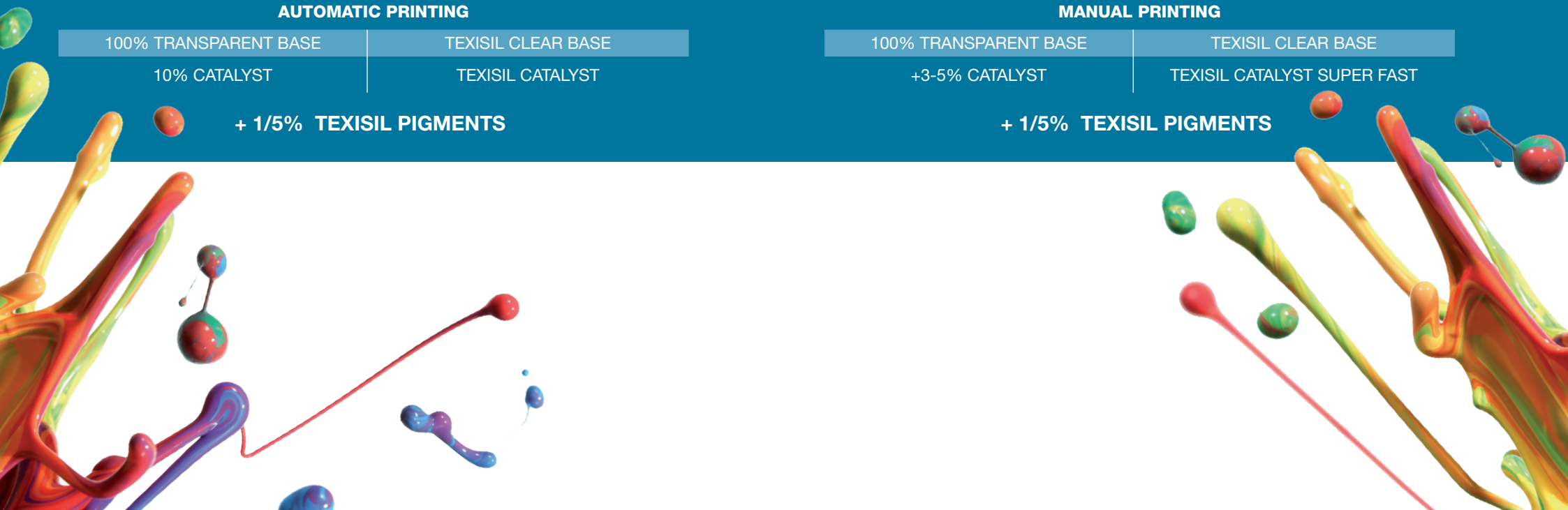
100% TRANSPARENT BASE

+3-5% CATALYST

TEXISIL CLEAR BASE

TEXISIL CATALYST SUPER FAST

+ 1/5% **TEXISIL PIGMENTS**



TEXISIL RANGE

TEXISIL WHITE EXTRA

- WHITE INK TO PRINT ON DARK SUBSTRATES
- HIGH ELASTICITY
- PRINTABLE WITH MESH UP TO 77 Th/cm (195 Th/inch)
- ANTI-FOIL EFFECT
- HIGH OPACITY

AUTOMATIC PRINTING

100% WHITE
7% CATALYST

TEXISIL WHITE EXTRA
TEXISIL CATALYST

+ 1/5% TEXISIL PIGMENTS

MANUAL PRINTING

100% WHITE
+3-5% CATALYST

TEXISIL WHITE EXTRA
TEXISIL CATALYST SUPER FAST

+ 1/5% TEXISIL PIGMENTS



TEXISIL RANGE

TEXISIL WHITE 3D

- WHITE INK FOR PRINTING ONTO DARK SUBSTRATES
- HIGH ELASTICITY
- PRINTABLE WITH MESH UP TO 77 Th/cm (195 Th/inch)
- ANTI-FOIL EFFECT
- INDICATED FOR 3D EFFECTS

AUTOMATIC PRINTING

100% WHITE
7% CATALYST

TEXISIL WHITE 3D
TEXISIL CATALYST

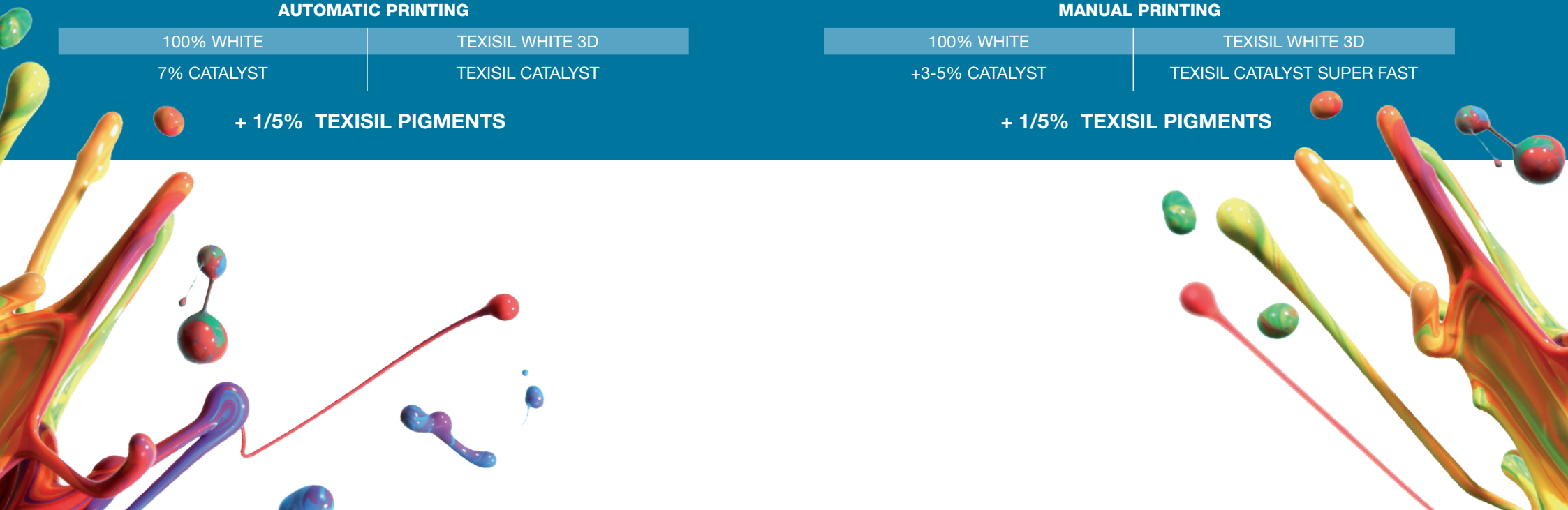
+ 1/5% TEXISIL PIGMENTS

MANUAL PRINTING

100% WHITE
+3-5% CATALYST

TEXISIL WHITE 3D
TEXISIL CATALYST SUPER FAST

+ 1/5% TEXISIL PIGMENTS



TEXISIL RANGE

TEXISIL MATT WHITE

- WHITE INK FOR PRINTING ONTO DARK SUBSTRATES
- HIGH ELASTICITY
- PRINTABLE WITH MESH UP TO 77 Th/cm (195 Th/inch)
- ANTI-FOIL EFFECT
- HIGH MATT LEVEL

AUTOMATIC PRINTING

100% WHITE
7% CATALYST

TEXISIL MATT WHITE
TEXISIL CATALYST

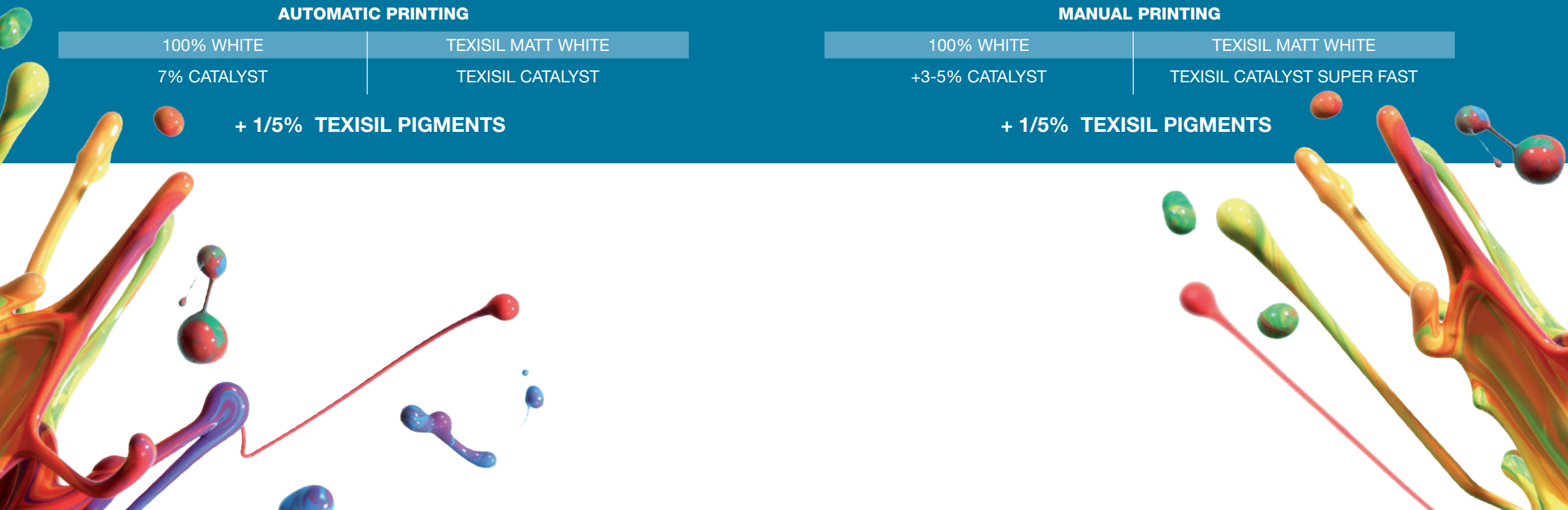
+ 1/5% **TEXISIL PIGMENTS**

MANUAL PRINTING

100% WHITE
+3-5% CATALYST

TEXISIL MATT WHITE
TEXISIL CATALYST SUPER FAST

+ 1/5% **TEXISIL PIGMENTS**



TEXISIL RANGE

TEXISIL OPAQUE BASE

- INK FOR LIGHT SUBSTRATES
- HIGH ELASTICITY
- PRINTABLE WITH MESH UP TO 77 Th/cm (195 Th/inch)
- ANTI-FOIL EFFECT
- QUITE GOOD OPACITY*

AUTOMATIC PRINTING

100% OPAQUE BASE
7% CATALYST

TEXISIL OPAQUE BASE
TEXISIL CATALYST

+ 1/5% **TEXISIL PIGMENTS**

MANUAL PRINTING

100% OPAQUE BASE
+3-5% CATALYST

TEXISIL OPAQUE BASE
TEXISIL CATALYST SUPER FAST

+ 1/5% **TEXISIL PIGMENTS**

*Due to the not high opacity of silicone inks, onto dark fabrics, it is recommended to print a white background, in order to increase the colour brightness.



TEXISIL RANGE

TEXISIL OPAQUE MATT BASE

- INK FOR PRINTING ONTO DARK SUBSTRATES
- HIGH ELASTICITY
- PRINTABLE WITH MESH UP TO 77 Th/cm (195 Th/inch)
- ANTI-FOIL EFFECT
- HIGH MATT LEVEL
- QUITE GOOD OPACITY*

AUTOMATIC PRINTING

100% OPAQUE MATT BASE

7% CATALYST

TEXISIL OPAQUE MATT BASE

TEXISIL CATALYST

+ 1/5% **TEXISIL PIGMENTS**

MANUAL PRINTING

100% OPAQUE MATT BASE

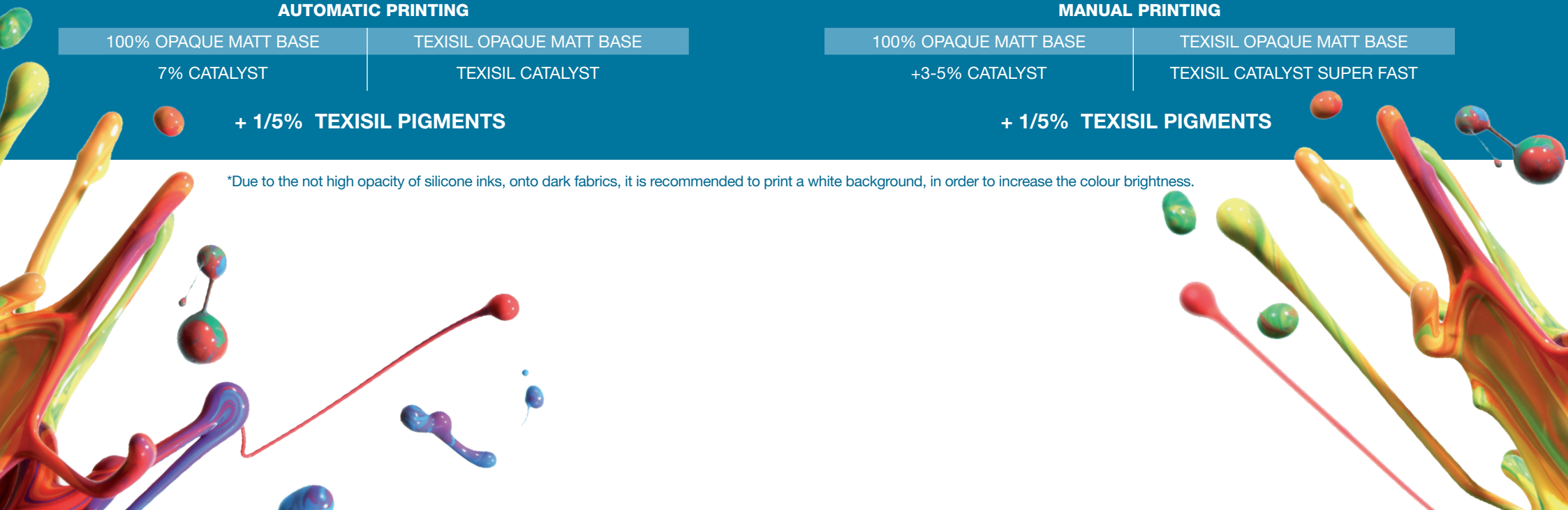
+3-5% CATALYST

TEXISIL OPAQUE MATT BASE

TEXISIL CATALYST SUPER FAST

+ 1/5% **TEXISIL PIGMENTS**

*Due to the not high opacity of silicone inks, onto dark fabrics, it is recommended to print a white background, in order to increase the colour brightness.



TEXISIL RANGE

TEXISIL PUFF BASE

- INK FOR PUFF EFFECTS
- HIGH ELASTICITY
- PRINTABLE WITH MESH UP TO 55 Th/cm (125 Th/inch)
- ANTI-FOIL EFFECT
- PUFF EFFECT WITH SOFT AND VELVETY TOUCH
- GOOD MECHANICAL RESISTANCE

AUTOMATIC PRINTING

100% PUFF BASE
7% CATALYST

TEXISIL PUFF BASE
TEXISIL CATALYST

+ 1/5% TEXISIL PIGMENTS

MANUAL PRINTING

100% PUFF BASE
+3-5% CATALYST

TEXISIL PUFF BASE
TEXISIL CATALYST SUPER FAST

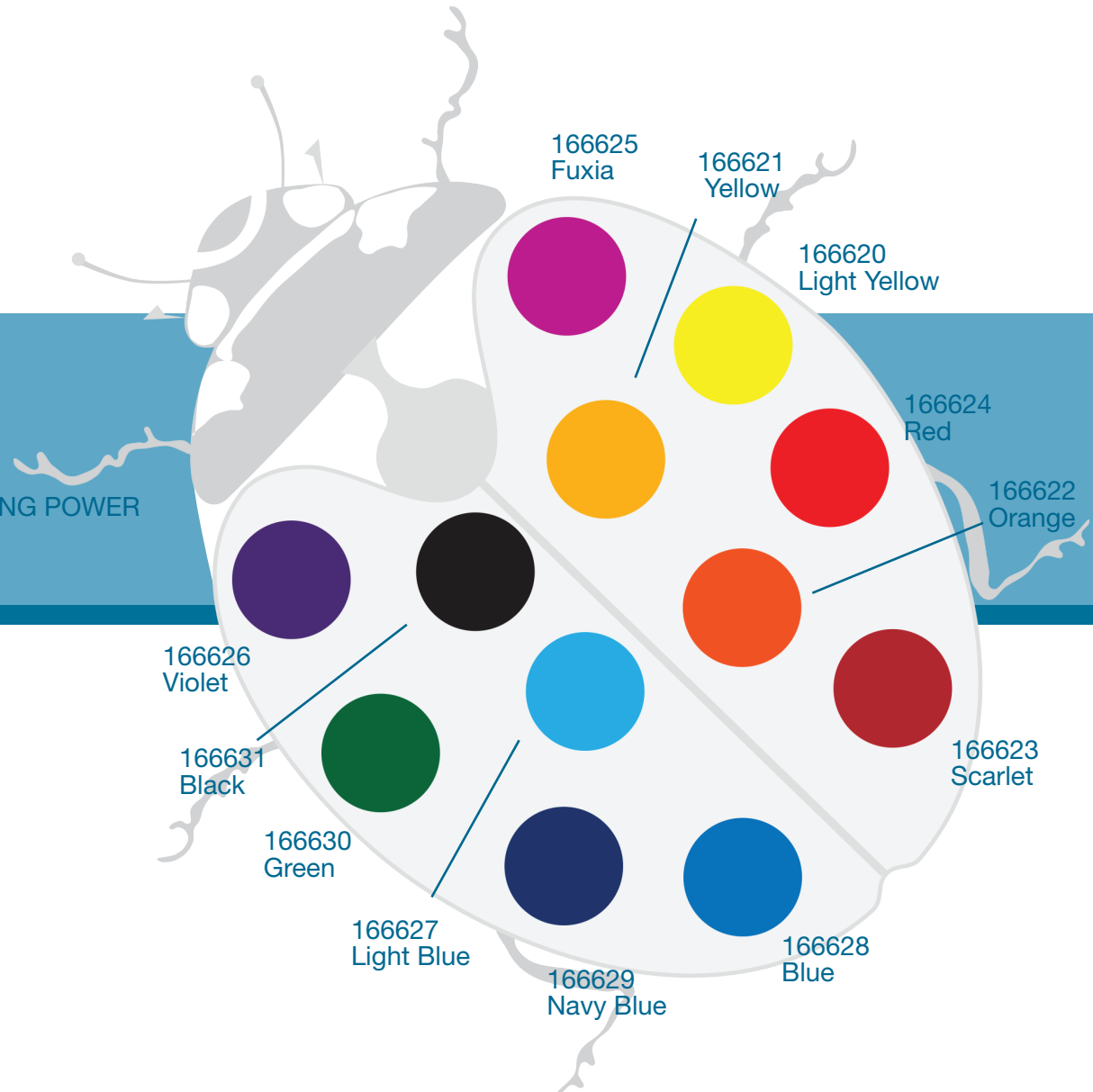
+ 1/5% TEXISIL PIGMENTS



TEXISIL RANGE

TEXISIL PIGMENTS

- PIGMENTS FOR TEXISIL SERIES
- USE PERCENTAGE = 1-5%
- GOOD GENERAL FASTNESS
- HIGH CONCENTRATION WITH HIGH COLOURING POWER



TEXISIL AUXILIARIES



TEXISIL THINNER

- It reduces ink viscosity without compromising the opacity; it is useful for the application of silicone inks when working on multi-colour automatic machines.
- The maximum use percentage is 5%

TEXISIL THINNER FAST

- It reduces ink viscosity without compromising the opacity; it is useful for the application of silicone inks when working on multi-colour automatic machines. It reduces the intermediate drying times with FLASH lamps.
- The maximum use percentage is 5%

USUAL INCONVENIENTS AND THEIR SOLUTION

BACKGROUND WHITE PRINTING

1. POSSIBLE SLOW FLASH DRYING

Add the following auxiliaries: TEXISIL MATTING AGENT (5-10%) or TEXISIL THINNER FAST (3-5%)

2. HIGH GLOSS OF WHITE BACKGROUND

Add the following auxiliary: TEXISIL MATTING AGENT (5-10%)

PROBLEMS ON SYNTHETIC FABRICS

1. BLEEDING PROBLEM (WITH TEXISIL CATALYST)

Adjust curing temperature and time conditions at 130°C for 3 minutes

HIGH INK VISCOSITY

1. HIGH INK VISCOSITY – WHITE BACKGROUND

Add TEXISIL THINNER FAST (2-3%). This auxiliary also reduces the flash drying time

2. HIGH INK VISCOSITY - COLOURS

Add TEXISIL THINNER (2-3%)



USUAL INCONVENIENTS AND THEIR SOLUTION

POT LIFE PROBLEMS

1. POSSIBLE POT LIFE REDUCTION

Prepare only the ink quantity needed for few hours
Lay small quantity of (already catalyzed) ink onto the screen



OVERPRINT PROBLEMS

1. HIGH GLOSSY OF COLOURED OVERPRINTS

Add the following auxiliary: TEXISIL MATTING AGENT (5-10%)

2. NOT HOMOGENEOUS OVERPRINT COLOURS ON WHITE BACKGROUND

Adjust flash drying time and temperature conditions
Adjust the ink deposit



POSSIBLE PRINTING PROBLEMS

1. BUILD UP OF THE FIRST OVERPRINTED COLOUR ON WHITE BACKGROUND

Leave empty printing stations after the flash lamp in order to allow the pallet cooling
In case, use some ventilators on the printing stations

2. HIGH INK VISCOSITY - COLOURS

Add TEXISIL THINNER (2-3%)





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BE NATURAL, BE FREE!

Every two seconds a forest area - sizing a football field - is destroyed!

We believe in developing a Sustainable Chemistry as we believe that the respect for the environment is part of our responsibility. With a few simple, everyday efforts you can help us to reduce pollution, consume less energy and water and produce less waste:

- Download our brochures from our website
- Spread the information to your customers through internet and @mail
- Print brochures only if really necessary choosing Recycled Paper

Do like us: BE NATURAL, BE FREE