



# PHOTOEMULSIONS FOR TEXTILE: ROTARY SCREEN

**EPTAINKS**

# PHOTOEMULSIONS FOR TEXTILE: ROTARY SCREEN

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## TOPICS

PHOTOEMULSIONS FOR TEXTILE: CLASSIFICATION

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PHOTOEMULSIONS FOR TEXTILE: ROTARY SCREEN  
Summary table 1

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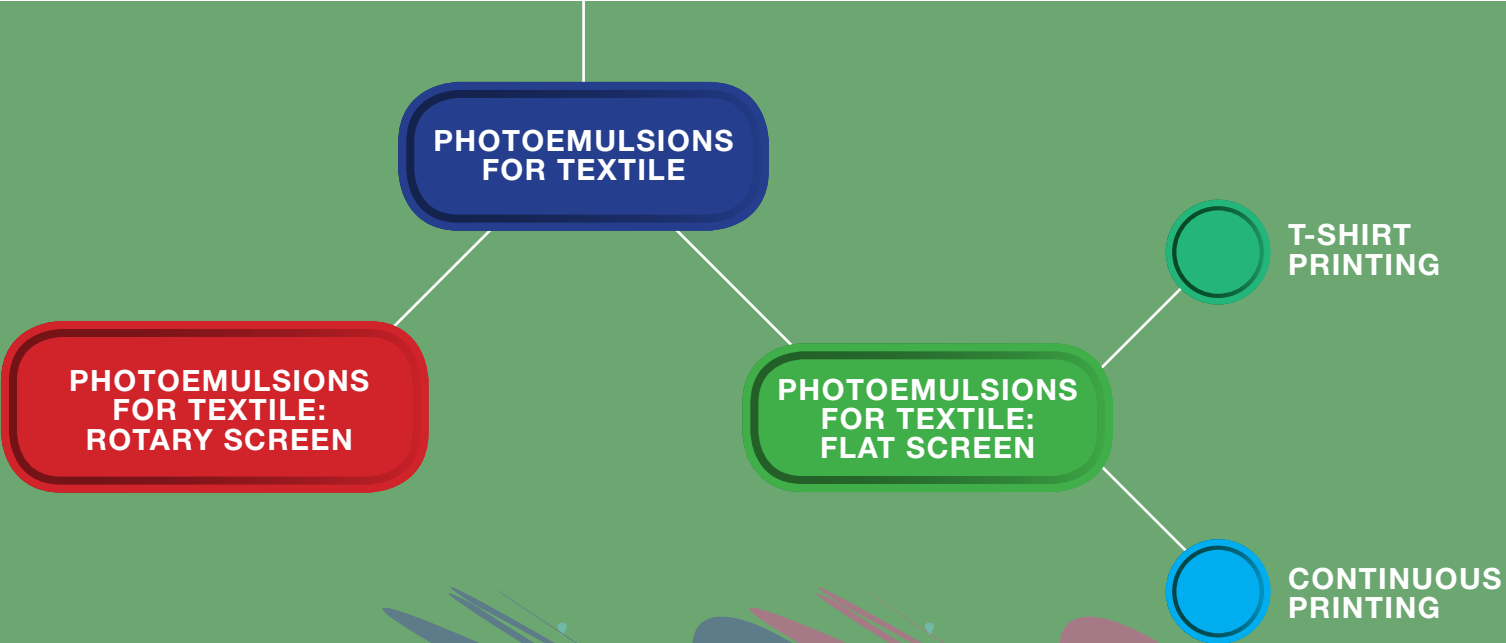
WORKING STEPS AND ANCILLARY PRODUCTS

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# PHOTOEMULSIONS FOR TEXTILE: ROTARY SCREEN

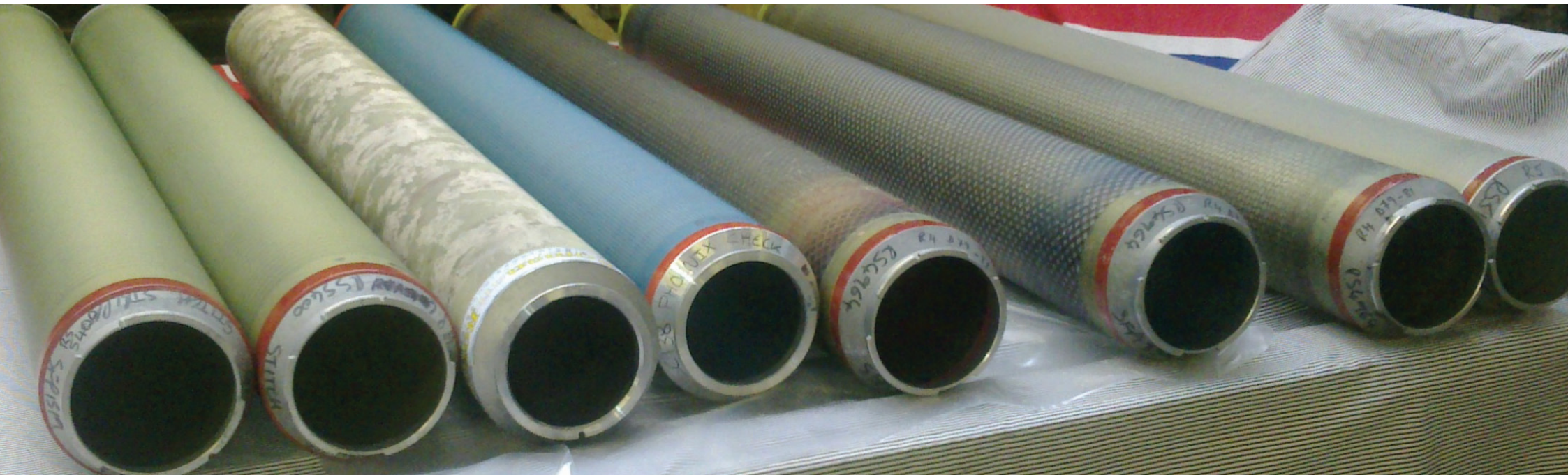
## CLASSIFICATION



# PHOTOEMULSIONS FOR TEXTILE: ROTARY SCREEN

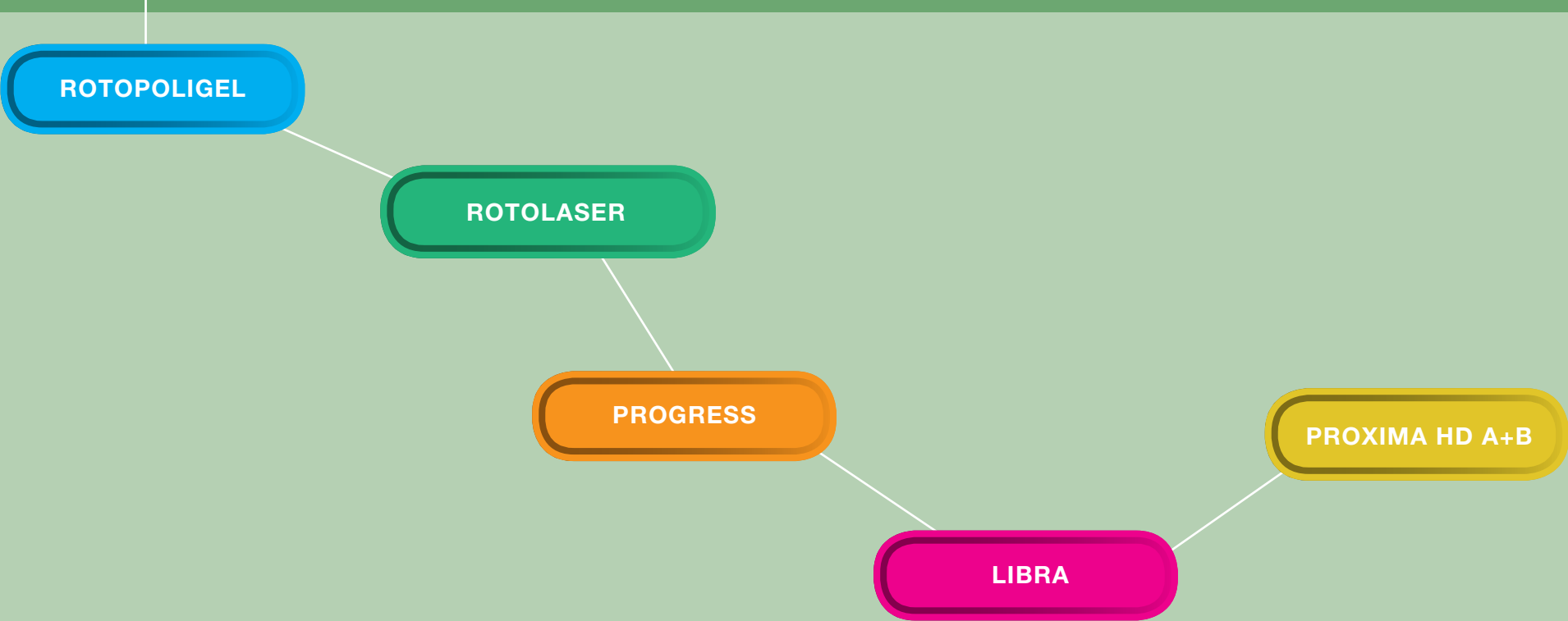
## PHOTOEMULSIONS FOR TEXTILE: ROTARY SCREEN

Rotary textile printing is the technique where the fabrics decoration is obtained with the use of metal micro-pierced cylinders



# PHOTOEMULSIONS FOR TEXTILE: ROTARY SCREEN

## ROTARY PRINTING



# PHOTOEMULSIONS FOR TEXTILE: ROTARY SCREEN

## THE RANGE

ROTOPOLIGEL

### WHAT IS IT?

Traditional emulsion in different colours to be sensitized by Dichromate.

### TECHNICAL FEATURES

- **BLU:** for any mesh type, single or double squeegee coating, excellent print resistances, available for film, wax jet and Laser CO2 engraving system
- **ROSSO PS:** for any mesh type, single or double squeegee coating, good engraving fidelity of the fine details, particularly indicated for ink jet engraving method
- **ROSSO NT/P:** for any mesh type, suitable to obtain drawings gradient and fine lines, coating with single or double squeegee technique, it can be used both with traditional engraving systems and with wax jet and Laser CO2 ,the red colour remains even after the polymerization of the cylinder
- **ROTOPOLIGEL AE:** low smell, tack-free, short exposure time, good engraving fidelity, good resistance to printing pastes, after printing it can be recovered with suitable emulsion removers

# PHOTOEMULSIONS FOR TEXTILE: ROTARY SCREEN

## THE RANGE

ROTOPOLIGEL

### GENERAL FEATURES

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID	
ROTARY	TRADITIONAL	CHROME	BLUE - RED	37	ROTOPOLIGEL BLU, PS, NT/P
ROTARY	TRADITIONAL	CHROME	LIGHT BLUE	38	ROTOPOLIGEL AE
VISCOSITY	HIGH TEMPERATURE	RECOVERY*	DEFINITION	RESOLUTION	
12000 cPs	YES	YES	4>5	4>5	ROTOPOLIGEL BLU, PS, NT/P
9000 cPs	YES	YES	4	4	ROTOPOLIGEL AE

### RESISTANCES

CHEMICAL	MECHANICAL	
5	5	ROTOPOLIGEL BLU, PS, NT/P
4	4	ROTOPOLIGEL AE

### COMPATIBLE INKS

WATER BASED	WALLPAPER	SUBLIMATION	SOLVENT BASED
5	4	5	NO

Key: 0= min / 5= max / \* Before curing

# PHOTOEMULSIONS FOR TEXTILE: ROTARY SCREEN

## THE RANGE

ROTOLASER

### WHAT IS IT?

Ready to use product (no sensitizer needed) for the preparation of rotary screen, which must be engraved by means of ablative laser unit (LEN CO2).

### TECHNICAL FEATURES

- Coating with double squeegee technique
- Excellent resistance to chemical/mechanical stress, even with applications of low thickness emulsion
- Available in Blue colour (Rotolaser 401) and in Red colour (Rotolaser 400) as well



# PHOTOEMULSIONS FOR TEXTILE: ROTARY SCREEN

## THE RANGE

ROTOLASER

### GENERAL FEATURES

<b>APPLICATION</b> ROTARY	<b>CLASS</b> LASER CO2	<b>SENSITIZER</b> NO	<b>COLOUR</b> BLU E- RED	<b>% SOLID</b> 22
<b>VISCOSITY</b> 2000 cPs	<b>HIGH TEMPERATURE</b> YES	<b>RECOVERY*</b> YES	<b>DEFINITION</b> 4	<b>RESOLUTION</b> 4

### RESISTANCES

<b>CHEMICAL</b> 5	<b>MECHANICAL</b> 5
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### COMPATIBLE INKS

<b>WATER BASED</b> 5	<b>WALLPAPER</b> 5	<b>SUBLIMATION</b> 5	<b>SOLVENT BASED</b> 5
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Key: 0= min / 5= max / \* Before curing

# PHOTOEMULSIONS FOR TEXTILE: ROTARY SCREEN

## THE RANGE

PROGRESS

### WHAT IS IT?

It is a photoemulsion with enhanced chemical/physical properties, to be sensitized with the most harmless Diazo compounds.

### TECHNICAL FEATURES

- Available for use with any number of mesh
- It can be used with traditional engraving method, wax jet, ink jet system and also with CTS Blue Laser diode (LDE)
- Coating with single or double squeegee technique
- Innovative in the field of textile screen making, because **CHROME SALTS ARE NOT USED**, rather the most harmless **DIAZO COMPOUNDS**

# PHOTOEMULSIONS FOR TEXTILE: ROTARY SCREEN

## THE RANGE

PROGRESS

### GENERAL FEATURES

<b>APPLICATION</b> ROTARY	<b>CLASS</b> DUAL-CURE	<b>SENSITIZER</b> DIAZO HDR	<b>COLOUR</b> RED	<b>% SOLID</b> 39
<b>VISCOSITY</b> 9000 cPs	<b>HIGH TEMPERATURE</b> YES	<b>RECOVERY*</b> YES	<b>DEFINITION</b> 4	<b>RESOLUTION</b> 4

### RESISTANCES

<b>CHEMICAL</b> 5	<b>MECHANICAL</b> 5
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### COMPATIBLE INKS

<b>WATER BASED</b> 5	<b>WALLPAPER</b> 4	<b>SUBLIMATION</b> 4	<b>SOLVENT BASED</b> NO
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Key: 0= min / 5= max / \* Before curing

# PHOTOEMULSIONS FOR TEXTILE: ROTARY SCREEN

## THE RANGE

LIBRA

### WHAT IS IT?

It is the latest environmentally safe photoemulsion, to be used with Diazo sensitizer compounds.

### TECHNICAL FEATURES

- To be applied through the CTS technology with DMD/DLE and Blue Laser Diode (LDE)
- Available for the use on rotary screens with any number of mesh
- High Definition and Resolution results of the engraved patterns
- Notable features on textile printing process
- Double squeegee coating technique

# PHOTOEMULSIONS FOR TEXTILE: ROTARY SCREEN

## THE RANGE

LIBRA

### GENERAL FEATURES

<b>APPLICATION</b> ROTARY	<b>CLASS</b> DUAL-CURE	<b>SENSITIZER</b> DIAZO MICRO HD	<b>COLOUR</b> BLUE	<b>% SOLID</b> 38
<b>VISCOSITY</b> 10000 cPs	<b>HIGH TEMPERATURE</b> YES	<b>RECOVERY*</b> YES	<b>DEFINITION</b> 5	<b>RESOLUTION</b> 4

### RESISTANCES

<b>CHEMICAL</b> 5	<b>MECHANICAL</b> 5
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### COMPATIBLE INKS

<b>WATER BASED</b> 5	<b>WALLPAPER</b> 5	<b>SUBLIMATION</b> 4	<b>SOLVENT BASED</b> NO
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Key: 0= min / 5= max / \* Before curing

# PHOTOEMULSIONS FOR TEXTILE: ROTARY SCREEN

## THE RANGE

PROXIMA HD A+B

### WHAT IS IT?

Two-component photosensitive lacquer available for the use on rotary screens, particularly on high mesh count.

### TECHNICAL FEATURES

- The sensitizer is not compulsory
- Realized for the use with all CTS optical systems
- Outstanding level of Definition and Resolution parameters
- Exceptional resistance on textile printing process

# PHOTOEMULSIONS FOR TEXTILE: ROTARY SCREEN

## THE RANGE

PROXIMA HD A+B

### GENERAL FEATURES

<b>APPLICATION</b> ROTARY	<b>CLASS</b> PURE-POLYMER	<b>SENSITIZER</b> NO	<b>COLOUR</b> RED	<b>% SOLID</b> NA
<b>VISCOSITY</b> NA	<b>HIGH TEMPERATURE</b> YES	<b>RECOVERY*</b> YES	<b>DEFINITION</b> 5	<b>RESOLUTION</b> 5

### RESISTANCES

<b>CHEMICAL</b> 5	<b>MECHANICAL</b> 5
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### COMPATIBLE INKS

<b>WATER BASED</b> 5	<b>WALLPAPER</b> 5	<b>SUBLIMATION</b> 5	<b>SOLVENT BASED</b> 3
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Key: 0= min / 5= max / \* Before curing

# PHOTOEMULSIONS FOR TEXTILE: ROTARY SCREEN

## SUMMARY TABLE

		CLASS	WATER BASED	WALL PAPER	SUBLI	SOLVENT BASED
ROTOPOLIGEL BLU // PS, NT/P		TRADITIONAL	5	4	5	NO
ROTOPOLIGEL AE		TRADITIONAL	4	3	4	NO
ROTOLASER		LASER CO2	5	5	5	5
PROGRESS		DIAZO DUAL-CURE	5	4	4	NO
LIBRA		DIAZO DUAL-CURE	5	5	4	NO
PROXIMA HD		PURE POLYMER	5	5	5	3

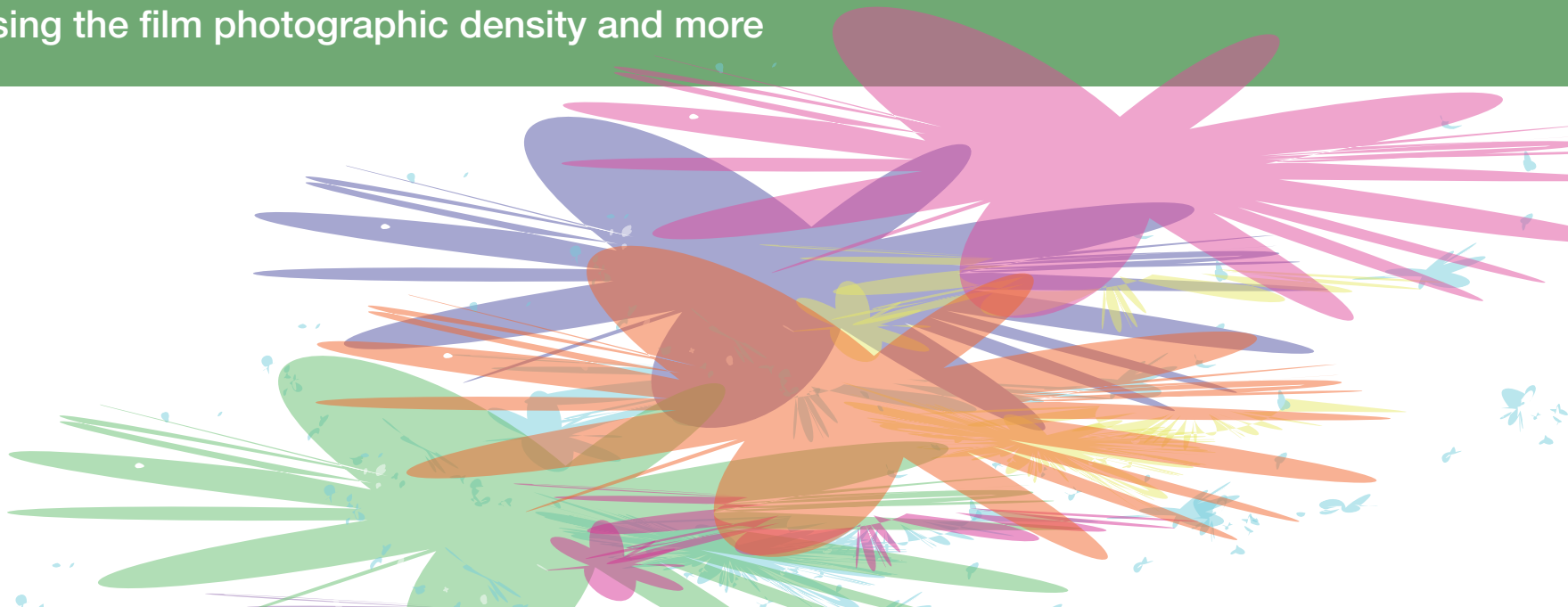
Key:  
0= min  
5= max



## WORKING STEPS & ANCILLARY PRODUCTS









**Epta Inks** has made the best selection of ancillary products for the pre-press processes; some of them are indicated in the Working Steps here following. Moreover, the range includes:

- Permanent adhesives
- Catalysts, Solvents and Thinners
- Products for specimen papers
- Additives for increasing the film photographic density and more



# PHOTOEMULSIONS FOR TEXTILE: ROTARY SCREEN

## CYLINDER PREPARATION

Degreasing		<b>STANDARD</b> ROTONET CONC. TO BE SENSITIZED <sup>1</sup>		
Emulsion preparation		<b>ROTOPOLIGEL SERIES</b> Use SENSITIZER 305 (10%). See the TDS for more and detailed info	<b>LIBRA / PROGRESS</b> Use DIAZO SENSITIZER compounds. See the TDS for more and detailed info	<b>PROXMA HD A+B</b> Mix SOLUTION A with SOLUTION B See the TDS for more and detailed info
Emulsion application		<b>1 coat</b> The application depends on the coating method. See the TDS for more and detailed info		
Drying		[25-30]°c <sup>1</sup> <sup>1</sup> Drying time depends on the applied emulsion quantity. See the TDS for more and detailed info		
Engraving		<sup>1</sup> Exposure time depends on the used exposure unit. See the TDS for more and detailed info		
Development		Dip the screen into water at room temperature for about 5 minutes. Rinse off through a water jet. See the TDS for more and detailed info		
Retouching		Retouching may take place with ROTORET MONO. See the TDS for more and detailed info		
High temperature curing		Polymerisation must be at 180°C for 1 hour minimum. See the TDS for more and detailed info		

# PHOTOEMULSIONS FOR TEXTILE: ROTARY SCREEN

## CYLINDER RECOVERY

### STRIPPING PROCESS

### NOTES

Stripping agent application



Apply the product on the cylinder and let it work for 5 minutes

Use POLISTRIP SERIE.  
The range includes several types of stripping agent.  
See the TDS for more and detailed info

Rinse off stripping agent



Remove the product through a water jet (High pressure)

Drying



TEMPERATURE: [30-35]° C  
TIME: 30 MINUTES





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- Print brochures only if really necessary choosing Recycled Paper.

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