

### **TOPICS**

PHOTOEMULSIONS FOR TEXTILE: CLASSIFICATION

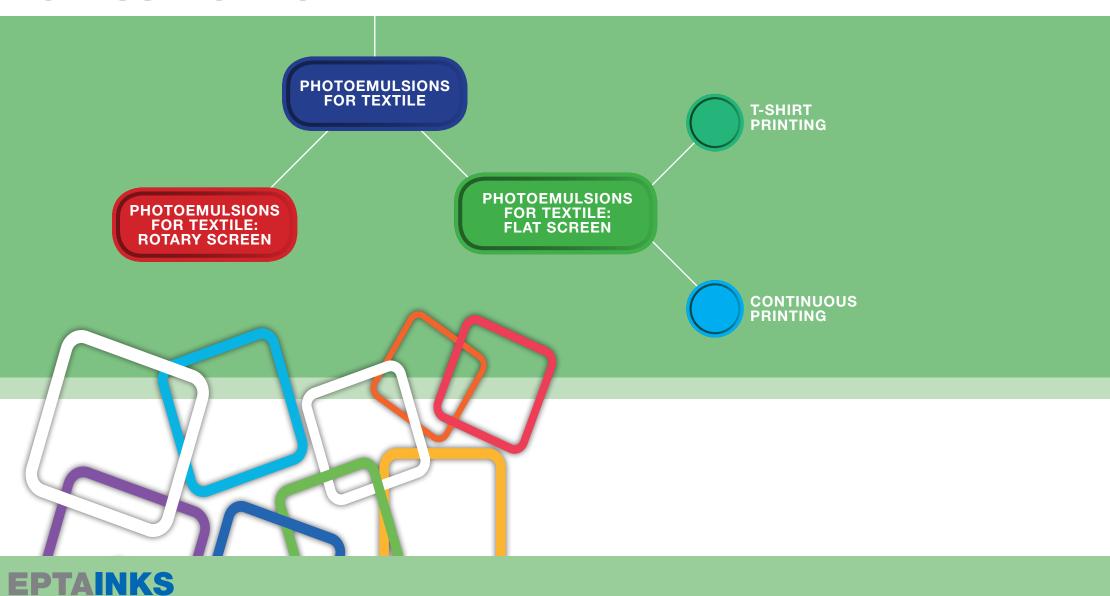
PHOTOEMULSIONS FOR TEXTILE FLAT SCREEN: T-SHIRT PRINTING Summary table 1

PHOTOEMULSION FOR TEXTILE FLAT SCREEN: CONTINUOUS PRINTING Summary table 2

WORKING STEPS AND ANCILLARY PRODUCTS



### **CLASSIFICATION**



# PHOTOEMULSIONS FOR TEXTILE: FLAT SCREEN



It is the process which uses machines printing roll to roll fabric



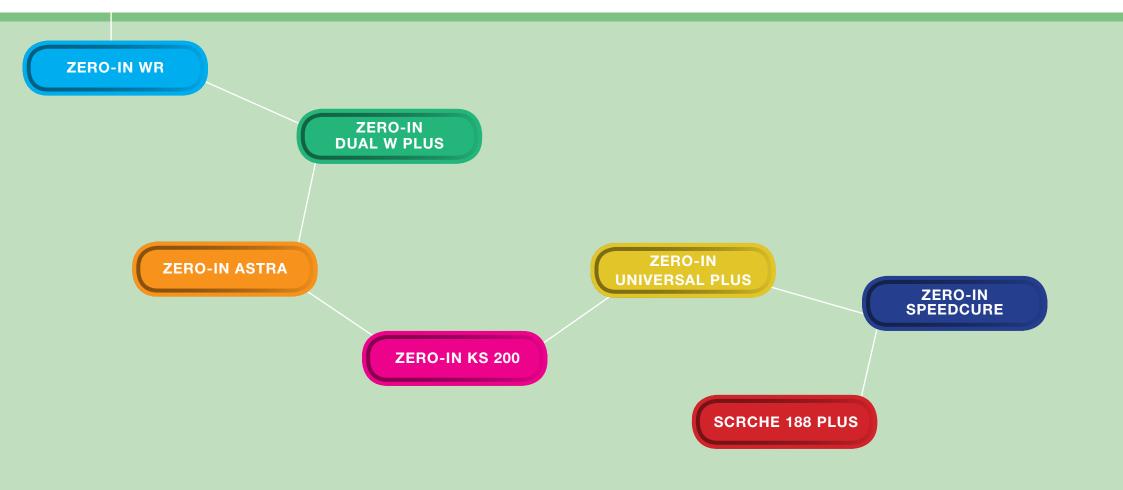
It is the process which uses carousel machines printing ready made garments or pre-cut fabrics







# T-SHIRT PRINTING



### THE RANGE



#### WHAT IS IT?

Traditional emulsion to be sensitized by Diazo-compounds (Diazo-Micro HD blister)

- Quite good chemical resistance
- Good mechanical resistance
- It is indicated for printing with Water-based inks





### THE RANGE

#### **GENERAL FEATURES**

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FLAT SCREEN	TRADITIONAL	MICRO HD	BLUE	40
VISCOSITY	CATALYSIS	RECOVERY	DEFINITION	RESOLUTION
7000 cPs	CATALYST 210	YES	3	3

#### **RESISTANCES**

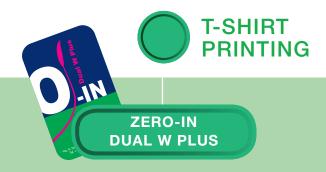
CHEMICAL	MECHANICAL
4	5

#### **COMPATIBLE INKS**

WATER BASED	PLASTISOL	SUBLIMATION	SOLVENT BASED	UV
4	0	0	NO	NO



### THE RANGE

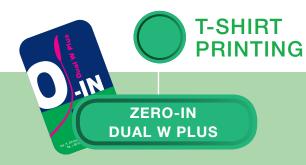


#### WHAT IS IT?

Dual-cure emulsion to be sensitized by Diazo-compounds (Diazo-Micro HD Blister)

- Excellent solid content
- Good mechanical resistance
- It is indicated for printing with Plastisol, Water-based and Sublimation inks





### THE RANGE

#### **GENERAL FEATURES**

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FLAT SCREEN	DUAL-CURE	MICRO HD	BLUE	41
VISCOSITY	CATALYSIS	RECOVERY	DEFINITION	RESOLUTION
8000 cPs	CATALYST 210	YES	3	3

#### **RESISTANCES**

CHEMICAL	MECHANICAL
Δ	$\Delta$

#### **COMPATIBLE INKS**

WATER BASED	PLASTISOL	SUBLIMATION	SOLVENT BASED	UV
5	5	5	NO	NO



### THE RANGE



ZERO-IN ASTRA

#### WHAT IS IT?

Dual-cure emulsion to be sensitized by Diazo-compounds (Diazo Micro HD Blister)

- High solid content
- Excellent chemical and mechanical resistance
- It is indicated for printing with Plastisol, Water-based and Sublimation inks





### THE RANGE



#### **GENERAL FEATURES**

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FLAT SCREEN	DUAL-CURE	MICRO HD	BLUE	43
VISCOSITY	CATALYSIS	RECOVERY	DEFINITION	RESOLUTION
8000 cPs	CATALYST 210	YES	5	4

#### **RESISTANCES**

CHEMICAL	MECHANICAL
5	5

#### **COMPATIBLE INKS**

WATER BASED	PLASTISOL	SUBLIMATION	SOLVENT BASED	UV
5	5	3	NO	NO



# THE RANGE



ZERO-IN KS 200

#### WHAT IS IT?

Dual-cure emulsion to be sensitized by Diazo-compounds (Diazo Micro HD Blister)

- Excellent quality price ratio
- It is indicated for printing with Plastisol, Water and Solvent based, UV inks





### THE RANGE

ZERO-IN KS 200

#### **GENERAL FEATURES**

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FLAT SCREEN	DUAL-CURE	MICRO HD	BLUE	35
VISCOSITY	CATALYSIS	RECOVERY	DEFINITION	RESOLUTION
5000 cPs	CATALYST 210		3	3

#### **RESISTANCES**

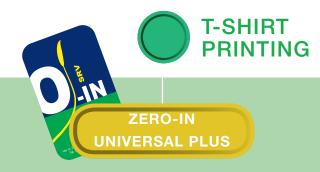
CHEMICAL	MECHANICAL
$\Delta$	Δ

#### **COMPATIBLE INKS**

WATER BASED	PLASTISOL	SUBLIMATION	SOLVENT BASED	UV
4	4	NO	3	3



### THE RANGE



#### WHAT IS IT?

Dual-cure emulsion to be sensitized by Diazo-compounds (Diazo Micro HD Blister)

#### **GENERAL FEATURES**

- Extremely versatile
- Excellent chemical resistance
- Good mechanical resistance
- It is indicated for printing with Water, Solvent based and Plastisol inks



### THE RANGE

#### **GENERAL FEATURES**

Al	PPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FI	_AT SCREEN	DUAL-CURE	MICRO HD	BLUE	36
_	//2000/1977				
	<b>VISCOSITY</b>	CATALYSIS	RECOVERY	DEFINITION	RESOLUTION
	7500 cPs	YFS	YFS	4	4

#### **RESISTANCES**

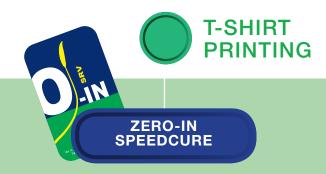
CHEMICAL	MECHANICAL
5	4

#### **COMPATIBLE INKS**

WATER BASED	PLASTISOL	SUBLIMATION	<b>SOLVENT BASED</b>	UV
5	5	NO	3	NO



### THE RANGE



#### WHAT IS IT?

Pure-polymer (SBQ) emulsion to prepare screens for high thickness printing

- Excellent transparence of the emulsion film
- Ready-to-use
- It is indicated for printing with Water and Solvent Based, UV and Plastisol inks





### THE RANGE

#### **GENERAL FEATURES**

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FLAT SCREEN	PURE POLYMER	NO	BLUE	38
VISCOSITY	CATALYSIS	RECOVERY	DEFINITION	RESOLUTION
40000 cPs	NO	NA	2	2

#### **RESISTANCES**

CHEMICAL	MECHANICAL
5	5

#### **COMPATIBLE INKS**

WATER BASED	PLASTISOL	SUBLIMATION	SOLVENT BASED	UV
3	4	NO	4	4



### THE RANGE



#### WHAT IS IT?

**Dual-cure emulsion to be sensitized by Diazo-compounds** 

- Excellent chemical and mechanical resistance
- Solvent free
- It is indicated for printing with Water and Solvent based and Plastisol inks



### THE RANGE

#### **GENERAL FEATURES**

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FLAT SCREEN	DUAL-CURE	MICRO HD	BLUE	39
VISCOSITY	CATALYSIS	RECOVERY	DEFINITION	RESOLUTION
8000 cPs	CATALYST 210	YES	4	4

#### **RESISTANCES**

CHEMICAL	MECHANICAL
4	4

#### **COMPATIBLE INKS**

WATER BASED	PLASTISOL	SUBLIMATION	SOLVENT BASED	UV
3	4	NO	3	NO



# **SUMMARY TABLE**

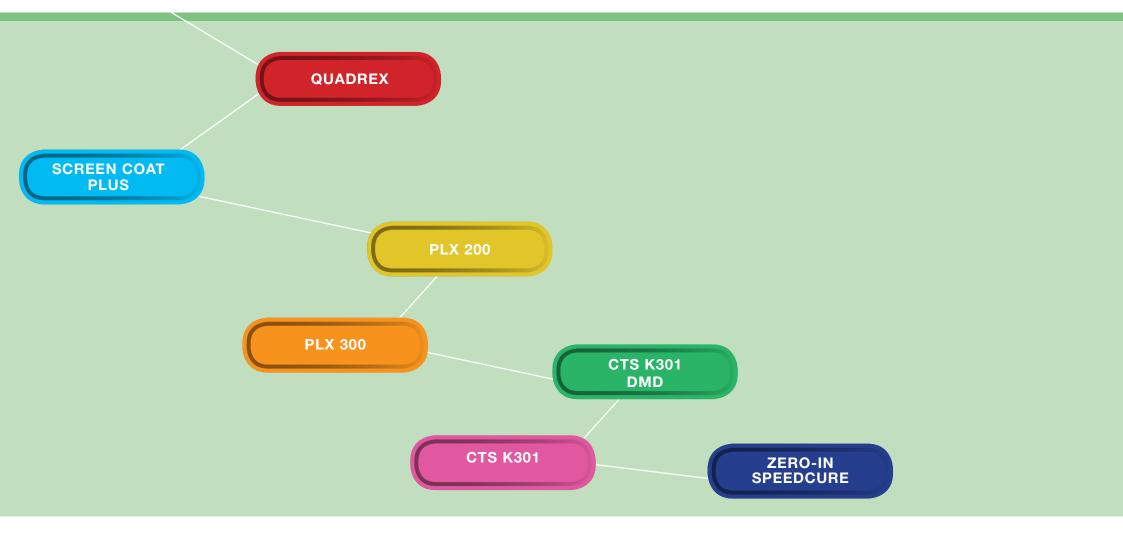


### **ZERO-IN RANGE**

		CLASS	SOLVENT	UV	WB UV	WB	PLASTISOL
WR		TRADITIONAL	0	0	0	4	0
DUAL W PLUS		DUAL-CURE	0	0	0	5	5
ASTRA	<u> </u>	DUAL-CURE	0	0	0	5	5
KS200	<b>O</b>	DUAL-CURE	4	3	NO	4	4
UNIVERSAL PLUS	<u> </u>	DUAL-CURE	3	0	NO	5	5
SPEEDCURE	<b>—</b>	PURE POLYMER	3	4	NO	3	4
SCRCHE 188 PLUS		DUAL-CURE	3	0	NO	3	4



# **CONTINUOUS PRINTING**





### THE RANGE





#### WHAT IS IT?

Traditional emulsion to be sensitized by Diazo-compound (Diazo Sensitizer Polvere HD)

- Excellent mechanical resistance
- Excellent mechanical resistance by printing discharge inks
- It is indicated for printing with Water-based inks





### THE RANGE



#### **GENERAL FEATURES**

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FLAT SCREEN	TRADITIONAL	DIAZO P. HD	BLUE	38
VISCOSITY	CATALYSIS	RECOVERY	DEFINITION	RESOLUTION
6000 cPs	CATALYST 200	NO	4	4

#### **RESISTANCES**

CHEMICAL	MECHANICAL
5	5

#### **RESISTENCES TO PRINTING PASTES**

PLASTISOL	DISCHARGE	DIRECT COL.	REACTIVE COL.
NO	5	5	5
ACID COL.	DISPERSE COL.	INDANTHREN	PIGMENT PASTES
5	5	4	5

Key: 0= min / 5= max



### THE RANGE



SCREEN COAT PLUS

#### WHAT IS IT?

Traditional emulsion to be sensitized by Diazo-compound (Diazo Sensitizer Polvere HD)

- Good resistance
- Hardening is not needed in case of short runs (according to the kind of printing paste used)
- It is indicated for printing with Water-based and Plastisol inks
- Solvent-free and environmentally safe





# THE RANGE



#### **GENERAL FEATURES**

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FLAT SCREEN	TRADITIONAL	DIAZO P. HD	LIGHT BLUE	38
VISCOSITY	CATALYSIS	RECOVERY	DEFINITION	RESOLUTION
9000 cPs	CATALYST 210	NO	4	4

#### **RESISTANCES**

CHEMICAL	MECHANICAL
Λ	Λ

#### **RESISTENCES TO PRINTING PASTES**

PLASTISOL	DISCHARGE	DIRECT COL.	REACTIVE COL.
YES	NO	5*	5*
ACID COL.	DISPERSE COL.	INDANTHREN	PIGMENT PASTES
5*	5*	4*	5

Key: 0= min / 5= max



<sup>\*</sup> After hardening

### THE RANGE



PLX 200 BLU

#### WHAT IS IT?

Traditional emulsion to be sensitized by Diazo-compound (Diazo Sensitizer Polvere HD)

- Excellent edge definition
- Excellent mechanical resistance
- It is indicated for printing with Water-based inks





### THE RANGE

PLX 200 BLU

#### **GENERAL FEATURES**

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FLAT SCREEN	DUAL-CURE	DIAZO P. HD	BLUE	41
VISCOSITY	CATALYSIS	RECOVERY	DEFINITION	RESOLUTION
	CAIALIGIC	MEGGVENI	DEFINITION	MEGGEOTION
8000 cPs	YES	NO	5	5

#### **RESISTANCES**

CHEMICAL MECHANICAL 5

#### **RESISTANCES TO PRINTING PASTES**

PLASTISOL	DISCHARGE	DIRECT COL.	REACTIE COL.
NO	2	5	5
ACID COL.	DISPERSE COL.	INDANTHREN	PIGMENT PASTES
5	5	4	5

Key: 0= min / 5= max



### THE RANGE



PLX 300 BLU

#### WHAT IS IT?

Dual-cure emulsion to be sensitized by Diazo-compounds (Diazo Sensitizer Polvere HD)

- High solid content
- Excellent mechanical resistance
- It is indicated for printing with Water-based inks





### THE RANGE

PLX 300 BLU

#### **GENERAL FEATURES**

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FLAT SCREEN	DUAL-CURE	DIAZO P. HD	BLUE	44
VISCOSITY	CATALYSIS	DECOVEDY	DEFINITION	RESOLUTION
VISCUSITY	CATALTSIS	RECOVERY	DEFINITION	RESULUTION
14000 cPs	CATALYST 210	NO	4	4

#### **RESISTANCES**

CHEMICAL	MECHANICAL
5	4

#### **RESISTENCES TO PRINTING PASTES**

PLASTISOL	DISCHARGE	DIRECT COL.	REACTIVE COL.
NO	2	4	4
ACID COL.	DISPERSE COL.	INDANTHREN	PIGMENT PASTES
4	4	3	5

Key: 0= min / 5= max



### THE RANGE





#### WHAT IS IT?

Pure polymer emulsion to prepare screens for textile continous printing

- To be used with Computer To Screen DMD/DLE systems
- Ready to use, no sensitizer needed
- It is indicated for printing with Water-based inks
- Solvent and label free





### THE RANGE



#### **GENERAL FEATURES**

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FLAT SCREEN	PURE POLYMER	NO	BLUE	38
VISCOSITY	CATALVOIC	DECOVERY	DEFINITION	DECOLUTION
VISCOSITI	CATALYSIS	RECOVERY	DEFINITION	RESOLUTION

#### **RESISTANCES**

CHEMICAL	MECHANICAL
5	4

#### **RESISTENCES TO PRINTING PASTES**

PLASTISOL	DISCHARGE	DIRECT COL.	REACTIVE COL.
YES	NO	4	4
ACID COL.	DISPERSE COL.	INDANTHREN	PIGMENT PASTES
4	4	3	5

Key: 0= min / 5= max



### THE RANGE



CTS K301

#### WHAT IS IT?

Dual-cure emulsion for Computer To Screen systems, to be sensitized by Diazo-compounds (Diazo Micro HD)

- It can be used with DMD/DLE and Blue Laser Diode (LDE) systems
- Good definition and edge sharpness
- It is indicated for printing with Water-based inks
- Solvent-free and label free





### THE RANGE

CTS K301

#### **GENERAL FEATURES**

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FLAT SCREEN	DUAL-CURE	DIAZO MICRO HD	BLUE	36
VISCOSITY	CATALYSIS	RECOVERY	DEFINITION	RESOLUTION
7000 cPs	CATALYST 210		5	5

#### **RESISTANCES**

CHEMICAL	MECHANICAL
5	4

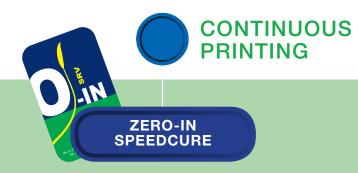
#### **RESISTENCES TO PRINTING PASTES**

PLASTISOL	DISCHARGE	DIRECT COL.	REACTIVE COL.
YES	NO	4	4
ACID COL.	DISPERSE COL.	INDANTHREN	PIGMENT PASTES
A	Δ	3	5

Key: 0= min / 5= max



### THE RANGE

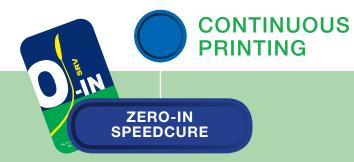


#### WHAT IS IT?

Pure-polymer (SBQ) emulsion to prepare screens for high thickness printing

- Excellent transparence of the emulsion film
- Ready-to-use
- It is indicated for printing with Water and Solvent based, UV and Plastisol inks





### THE RANGE

#### **GENERAL FEATURES**

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FLAT SCREEN	PURE POLYMER	NO	LIGHT BLUE	38
VISCOSITY	CATALYSIS	RECOVERY	DEFINITION	RESOLUTION
	OAIAEI OIO			

#### **RESISTANCES**

CHEMICAL	MECHANICAL
5	5

#### **COMPATIBLE INKS**

SOLVENT	UV	WB UV	WB	PLASTISOL
3	4	NA	3	4

Key: 0= min 5= max

NA= not available



### **SUMMARY TABLE**

CONTINUOUS PRINTING		RGE		/E		တ္သ	REN	į.	70
THE RANGE	CLASS	DISCHA	DIRECT	REACTIN	ACID	DISPERES	INDANT	PIGMEN	PLASTISOL
QUADREX	TRADITIONAL	5	5	5	5	5	4	5	NO
SCREEN COAT PLUS	TRADITIONAL	5	5	5	5	5	5	5	YES
PLX200	DUAL-CURE	2	5	5	5	5	4	5	NO
PLX300	DUAL-CURE	2	4	4	4	4	3	5	NO
CTS K301 DMD	PURE POLYMER	2	4	4	4	4	3	5	NO
CTS K301	DUAL-CURE	2	5	5	5	5	4	5	NO

# **ZERO-IN RANGE**

	CLASS	SOLVENT	UV	WB UV	WB	PLASTISOL
SPEEDCURE	PURE POLYMER	3	4	NA	3	4

Key: 0= min 5= max NA= not available



### **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







# **SCREEN PREPARATION**

	STANDARD	3D APPLICATION
Screen degreasing	CLEANSER 100	CLEANSER 100
	TO BE SENSITIZED 1	READY TO USE
Emulsion preparation	QUADREX; PLX200; PLX300; SCREEN COAT PLUS; CTS K301; CTS K301  DMD  Use DIAZO POLVERE HD, which needs to be diluted into water, or DIAZO MICRO HD, if needed.  See the TDS for more and detailed info	SPEEDCURE NO
Emulsion application	1 external coat + 1 internal coat The application depends on the mesh of the screens. The range is [34-90]Th/cm. See the TDS for more and detailed info	See the TDS for more and detailed info
Drying	[25-30]°c¹ ¹Exposure time dpends on the applied emulsion quantity. See the TDS for more and detailed info	[30-35]°c¹ ¹The exposure time depends on the applied emulsion quantity (min time: 2hours). See the TDS for more and detailed info
Engraving	SCREEN: [55-62] F/cm LAMP: metal-halogen UV 5000 W DISTANCE: 140 cm EXPOSURE TIME: [70-110]sec¹ ¹Exposure time dpends on the applied emulsion quantity. See the TDS for more and detailed info	SCREEN: See the TDS LAMP: metal-halogen UV 5000 W DISTANCE: 140 cm EXPOSURE TIME: <sup>1</sup> <sup>1</sup> IExposure time dpends on the applied emulsion quantity. 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	See the TDS for more and detailed info
Retouching	Retouching may take place with DURAL ARCHIM SERIES and LACCA MRF. See the TDS for more and detailed info	See the TDS for more and detailed info
Hardening	If hardening is needed, use the products of CATALYST SERIES. See the TDS for more and detailed info	NO
Varnishing	If a partial or total protection of the screens is needed, use DURAL ARCHIM SERIES.	See the TDS for more and detailed info



### **SCREEN RECOVERY**

**SCREEN RECOVERY** NOTES Stripping agent application Rinse off stripping agent TEMPERATURE: [30-35]° C **Drying** TIME: 30 MINUTES Apply the product on the areas of the sceen to be trated; \*Use SOLVENT STRIP & CLEANER STRIP PASTA. **Ghost images** See the TDS for more and detailed info removal Removal of the product **Asciugamento** TIME: 30 MINUTÈS





#### **EPTAINKS**

#### **Epta Inks SpA**

Via A. De Gasperi, 1 - 22070 Luisago (CO), Italy Ph. +39 031 9090111 Fax +39 031 920505 www.eptainks.com

#### Epta Inks SpA

Via Zamenhof, 12 - 36100 Vicenza, Italy Ph. +39 0444 914382 - Fax +39 0444 918196

#### Epta China Chemicals Co., Ltd.

Building A12, No.5399, Waiqingsong Road Qingpu I.Z. - 201700 Shanghai, China Ph. +86 21 69211223 - 69211286 Fax +86 21 69211225

#### Epta Spain S.L.U.

Can Coll, 15 - naves 22-23 - 08185 Lliçá de Vall Barcelona, Spain Ph. +34 93 8439217 - Fax +34 93 8439127

#### Epta Inks Türkiye

Egitim Mah., Acikgoz Sok. Ogun Is Merkezi No. 2 Kat 2 D:8, 34722 Hasanpasa - Kadikoy, ISTANBUL Ph. 0216 - 3383016 - Fax 0216 3383089

#### Epta India (PVT) Ltd.,

(A Subsidiary of Epta Inks, SpA., Italy)
No.8, 5th street, PudhuThottam, Sheriff Colony
Tiruppur - 641 604, India
Ph. 0421-2210244,2216988 - @mail: info@eptainks.co.in

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

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

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