



# EMULSIONS FOR GRAPHICS

**EPTATECH**

*the partner for specialties*

## TOPICS

ZERO-IN RANGE

---

REPRO-SCREEN RANGE

---

SUMMARY TABLES

---

APPLICATIONS

---

COMPLEMENTARY PRODUCTS

---

SCREEN MAKING

---

SCREEN RECOVERY

## ZERO-IN RANGE

- ZERO-IN SR-V
- ZERO-IN DUAL SV PLUS
- ZERO-IN KS500
- ZERO-IN UNIVERSAL PLUS
- ZERO-IN SPEEDCURE



# PHOTOEMULSIONS FOR GRAPHICS

## ZERO-IN RANGE



### ZERO-IN SR-V

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

### TECHNICAL FEATURES

- Quite good exposure latitude
- Quite good outlines definition
- Suitable for **solvent based and UV inks printing**

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FLAT SCREEN	DSE	MICRO HD	VIOLET	29
VISCOSITY	CATALYSIS	RECOVERY	DEFINITION	RESOLUTION
7500 cPs	NO	YES	🟡	🟡

### RESISTANCES

CHEMICAL	🟡
MECHANICAL	🟡

### COMPATIBLE INKS

SOLVENT	UV	WATER	PLASTISOL
🟡	🟡	🟠	🟠

Key:

- 🟠 Inadequate
- 🟡 Quite good
- 🟢 Good
- 🟣 Excellent

# PHOTOEMULSIONS FOR GRAPHICS

## ZERO-IN RANGE



### ZERO-IN DUAL SV PLUS

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

#### TECHNICAL FEATURES

- Excellent exposure latitude
- Excellent definition and resolution
- Suitable for **solvent based and UV inks printing**

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FLAT SCREEN	DPE	MICRO HD	VIOLET	34
VISCOSITY	CATALYSIS	RECOVERY	DEFINITION	RESOLUTION
7500 cPs	NO	YES	●	●

#### RESISTANCES

CHEMICAL	●
MECHANICAL	◐

#### COMPATIBLE INKS

SOLVENT	UV	WATER	PLASTISOL
◐	◐	○	○

Key:

- Inadequate
- ◐ Quite good
- ◑ Good
- Excellent

# PHOTOEMULSIONS FOR GRAPHICS

## ZERO-IN RANGE



### ZERO-IN KS500

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

### TECHNICAL FEATURES

- Excellent resolution and definition
- Good mechanical resistance
- Suitable for **solvent based, UV inks and plastisol printing**

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FLAT SCREEN	DPE	MICRO HD	VIOLET	36
VISCOSITY	CATALYSIS	RECOVERY	DEFINITION	RESOLUTION
7500 cPs	NO	YES	●	●

### RESISTANCES

CHEMICAL	●
MECHANICAL	◐

### COMPATIBLE INKS

SOLVENT	UV	WATER	PLASTISOL
●	●	○	◐

Key:

- Inadequate
- ◐ Quite good
- ◑ Good
- Excellent

# PHOTOEMULSIONS FOR GRAPHICS

## ZERO-IN RANGE



## ZERO-IN UNIVERSAL PLUS

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

### TECHNICAL FEATURES

- High versatility
- Excellent chemical resistance
- Good mechanical resistance
- Suitable for **water based, solvent based and plastisol inks printing**

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FLAT SCREEN	DPE	MICRO HD	BLUE	36
VISCOSITY	CATALYSIS	RECOVERY*	DEFINITION	RESOLUTION
7500 cPs	YES	YES	●	●

\*if not catalysed

### RESISTANCES

CHEMICAL	●
MECHANICAL	●

### COMPATIBLE INKS

SOLVENT	UV	WATER	PLASTISOL
●	○	●	●

Key:

- Inadequate
- ◐ Quite good
- Good
- Excellent

# PHOTOEMULSIONS FOR GRAPHICS

## ZERO-IN RANGE



## ZERO-IN SPEEDCURE

Pure polymer (SBQ) photoemulsion for high thickness printing screen preparation

### TECHNICAL FEATURES

- Excellent emulsion film transparency
- Ready-to-use
- Suitable for **water based, plastisol, solvent based and UV inks printing**

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FLAT SCREEN	PPE	NO	LIGHT BLUE	38
VISCOSITY	CATALYSIS	RECOVERY	DEFINITION	RESOLUTION
40000 cPs	NO	NO	◐	◐

### RESISTANCES

CHEMICAL	●
MECHANICAL	●

### COMPATIBLE INKS

SOLVENT	UV	WATER	PLASTISOL
●	●	◐	◑

Key:

- Inadequate
- ◐ Quite good
- ◑ Good
- Excellent

## REPRO-SCREEN RANGE

**NEW!**

— SR DUAL

— GEMINUS

— POLYGEL

— ELECTA

— PULXAR



# PHOTOEMULSIONS FOR GRAPHICS

## REPRO-SCREEN RANGE

### SR DUAL **NEW!**

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

### TECHNICAL FEATURES

- Quite good exposure latitude
- Excellent outlines definition
- Suitable for **solvent based and UV inks printing**

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FLAT SCREEN	DPE	MICRO HD	VIOLET	35
VISCOSITY	CATALYSIS	RECOVERY	DEFINITION	RESOLUTION
6800 cPs	NO	YES	●	◐

### RESISTANCES

CHEMICAL	●
MECHANICAL	◐

### COMPATIBLE INKS

SOLVENT	UV	WATER	PLASTISOL
●	●	○	○

Key:

- Inadequate
- ◐ Quite good
- ◑ Good
- Excellent

# PHOTOEMULSIONS FOR GRAPHICS

## REPRO-SCREEN RANGE

### GEMINUS **NEW!**

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

### TECHNICAL FEATURES

- Very good chemical and mechanical resistance
- Excellent resolution
- Suitable for **solvent based, UV, plastisol and water based inks printing**

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FLAT SCREEN	DPE	MICRO HD	BLUE	34
VISCOSITY	CATALYSIS	RECOVERY	DEFINITION	RESOLUTION
6600 cPs	YES	YES	◐	●

### RESISTANCES

CHEMICAL	◐
MECHANICAL	●

### COMPATIBLE INKS

SOLVENT	UV	WATER	PLASTISOL
◐	◐	◐	●

Key:

- Inadequate
- ◐ Quite good
- ◑ Good
- Excellent

# PHOTOEMULSIONS FOR GRAPHICS

## REPRO-SCREEN RANGE

### POLYGEL **NEW!**

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

### TECHNICAL FEATURES

- Good mechanical resistance
- Excellent chemical resistance
- Not suitable for large mesh
- Suitable for **solvent based, UV, plastisol and water based inks printing**

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FLAT SCREEN	DPE	MICRO HD	BLUE	37
VISCOSITY	CATALYSIS	RECOVERY*	DEFINITION	RESOLUTION
5000 cPs	YES	YES		

\*if not catalysed

### RESISTANCES

CHEMICAL	
MECHANICAL	

### COMPATIBLE INKS

SOLVENT	UV	WATER	PLASTISOL

Key:

- Inadequate
- Quite good
- Good
- Excellent

# PHOTOEMULSIONS FOR GRAPHICS

## REPRO-SCREEN RANGE

### ELECTA **NEW!**

Pure polymer (SBQ) photoemulsion

### TECHNICAL FEATURES

- Short exposure time
- Ready-to-use
- Easy recovery after printing
- Suitable for **solvent based and UV inks printing**

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FLAT SCREEN	PPE	NO	BLUE	35
VISCOSITY	CATALYSIS	RECOVERY	DEFINITION	RESOLUTION
11400 cPs	NO	YES	●	◐

### RESISTANCES

CHEMICAL	●
MECHANICAL	●

### COMPATIBLE INKS

SOLVENT	UV	WATER	PLASTISOL
●	●	○	○

Key:

- Inadequate
- ◐ Quite good
- ◑ Good
- Excellent

# PHOTOEMULSIONS FOR GRAPHICS

## REPRO-SCREEN RANGE

### PULXAR **NEW!**

Pure polymer (SBQ) photoemulsion

### TECHNICAL FEATURES

- Excellent resistance to solvents
- Short exposure time
- Ready-to-use and easy recovery after printing
- Available with optical CTS units (DMD/DCE)

APPLICATION	CLASS	SENSITIZER	COLOUR	% SOLID
FLAT SCREEN	PPE	NO	BLUE	36
VISCOSITY	CATALYSIS	RECOVERY	DEFINITION	RESOLUTION
8000 cPs	NO	YES	●	●

### RESISTANCES

CHEMICAL	●
MECHANICAL	●

### COMPATIBLE INKS

SOLVENT	UV	WATER	PLASTISOL
●	●	○	○

Key:

- Inadequate
- ◐ Quite good
- ◑ Good
- Excellent

# PHOTOEMULSIONS FOR GRAPHICS

## SUMMARY TABLE

### ZERO-IN RANGE

	CLASS	SOLVENT	UV	WATER	PLASTISOL
○ SR-V	DSE	●	●	○	○
○ DUAL SV PLUS	DPE	●	●	○	○
○ KS500	DPE	●	●	○	●
○ UNIVERSAL PLUS	DPE	●	○	●	●
○ SPEEDCURE	PPE	●	●	●	●

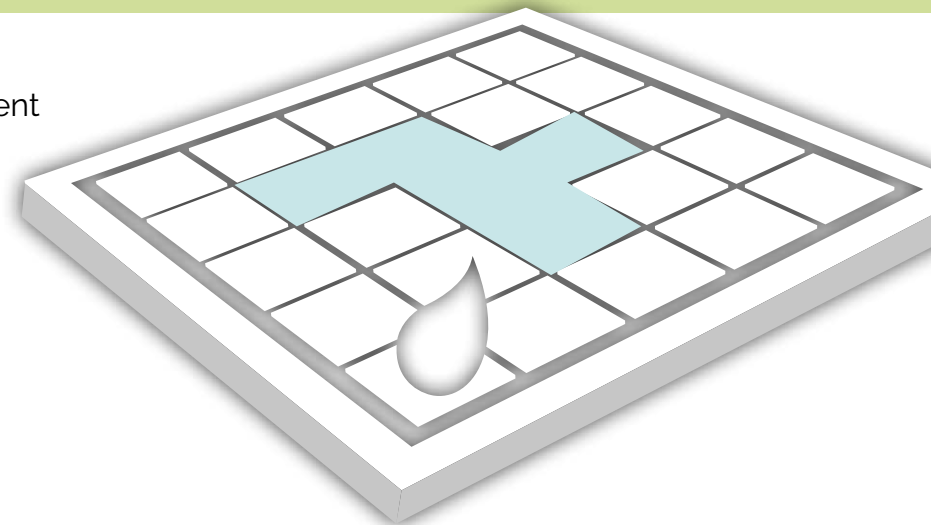
Key:

○ Inadequate

◐ Quite good

● Good

● Excellent



# PHOTOEMULSIONS FOR GRAPHICS

## SUMMARY TABLE

### REPRO-SCREEN RANGE

	CLASS	SOLVENT	UV	WATER	PLASTISOL
○ SR-DUAL	DPE	●	●	○	○
○ GEMINUS	DPE	◐	◐	◐	●
○ POLYGEL	DPE	●	●	◐	●
○ ELECTA	PPE	●	●	○	○
○ PULXAR	PPE	●	●	○	○

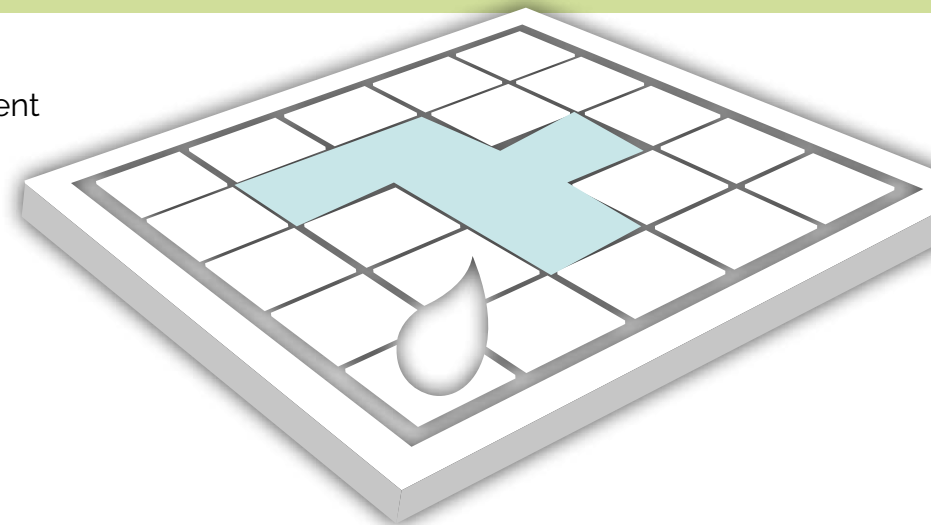
Key:

○ Inadequate

◐ Quite good

◑ Good

● Excellent



# PHOTOEMULSIONS FOR GRAPHICS

## APPLICATIONS

<ul style="list-style-type: none"><li>○ ZERO-IN SR-V</li><li>○ GEMINUS</li></ul> <p>Labels Promotional Visual Advertising Bottles Decals</p>	<ul style="list-style-type: none"><li>○ ZERO-IN DUAL SV PLUS</li><li>○ SRDUAL</li></ul> <p>PCB Glass Labels Promotional Visual Advertising Cd Bottles Decals Thermoforming In-moulding</p>	<ul style="list-style-type: none"><li>○ ZERO-IN KS500</li><li>○ PULXAR</li><li>○ ELECTA</li></ul> <p>PCB Glass Labels Promotional Visual Advertising Cd Bottles Decals Thermoforming In-moulding</p>	<ul style="list-style-type: none"><li>○ ZERO-IN UNIVERSAL PLUS</li><li>○ POLYGEL</li></ul> <p>PCB Glass Promotional Visual Advertising Decals</p>	<ul style="list-style-type: none"><li>○ ZERO-IN SPEEDCURE</li></ul> <p>PCB Glass Promotional Visual Advertising</p>
--	--	--	---	---

## COMPLEMENTARY PRODUCTS










**EPTATECH** offers the best selection of complementary products for pre-press processes, indicated in the following pages:

- Adhesives to glue the meshes to the frames
- Solvents and thinners
- Screen retouching and masking products









# PHOTOEMULSIONS FOR GRAPHICS

## SCREEN MAKING – ZERO-IN RANGE

		<b>SOLVENT RESISTANT</b>	<b>UNIVERSAL</b>	<b>3D APPLICATION</b>
Screen degreasing 		<b>CLEANSER 100 / CLEANSER PLUS</b>	<b>CLEANSER 100 / CLEANSER PLUS</b>	<b>CLEANSER 100 / CLEANSER PLUS</b>
		(TO BE SENSITIZED)		READY TO USE
Emulsion preparation 		<b>SR-V; DUAL SV PLUS; KS500</b> Use DIAZO MICRO HD (Blister) to sensitize the emulsion. It does not require pre-dilution into water. See the TDS for more detailed info	<b>UNIVERSAL PLUS</b>	<b>SPEEDCURE</b>
Emulsion application 		1 external coat + 1 internal coat	1 external coat + 1 internal coat	See TDS
Drying 		30-35°C The exposure time depends on the applied emulsion quantity	30-35°C The exposure time depends on the applied emulsion quantity	30-35°C The exposure time depends on the applied emulsion quantity (2 hours min.)
Engraving 		SCREEN: 120 Th/cm LAMP: metal-halogen UV 5000 W DISTANCE: 140 cm EXPOSURE TIME: 60-120 sec The exposure time depends on the applied emulsion quantity. See the TDS for more detailed info	SCREEN: 62 Th/cm LAMP: metal-halogen UV 5000 W DISTANCE: 140 cm EXPOSURE TIME: 90-110 sec The exposure time depends on the applied emulsion quantity. See the TDS for more detailed info	SCREEN: See TDS LAMP: metal-halogen UV 5000 W DISTANCE: 140 cm The exposure time depends on the applied emulsion quantity
Development 		Dip the screen into water at room temperature for about 5 minutes. Rinse off through a water jet.	Dip the screen into water at room temperature for about 5 minutes. Rinse off through a water jet.	See TDS
Retouching 		In case, with the same sensitized photoemulsion which must be re-exposed	In case, with the same sensitized photoemulsion which must be re-exposed	See TDS
Hardening 		NO	Only if the emulsion must resist to water based or plastisol inks. Use CATALYST 210	NO
Varnishing 		NO	If necessary use DURAL ARCHIM varnishing	NO

# PHOTOEMULSIONS FOR GRAPHICS

## SCREEN MAKING – REPRO-SCREEN RANGE

		SOLVENT RESISTANT	UNIVERSAL	GRAPHIC PRINTING
Screen degreasing 		CLEANSER 100 / CLEANSER PLUS	CLEANSER 100 / CLEANSER PLUS	CLEANSER 100 / CLEANSER PLUS
		(TO BE SENSITIZED)		READY TO USE
Emulsion preparation 		<b>SR DUAL   GEMINUS – POLYGEL</b> Use DIAZO MICRO HD PLUS (Blister) to sensitize the emulsion. It does not require pre-dilution into water. See the TDS for more detailed info		<b>ELECTA – PULXAR</b>
Emulsion application 		1 external coat + 2 internal coat	1 external coat + 2 internal coat	1 external coat + 2 internal coat
Drying 		30-35°C The exposure time depends on the applied emulsion quantity	30-35°C The exposure time depends on the applied emulsion quantity	30-35°C The exposure time depends on the applied emulsion quantity (2 hours min.)
Engraving 		SCREEN: 120 Th/cm LAMP: metal-halogen UV 5000 W DISTANCE: 100 cm EXPOSURE TIME: 60-120 sec The exposure time depends on the applied emulsion quantity. See the TDS for more detailed info	SCREEN: 62 Th/cm LAMP: metal-halogen UV 5000 W DISTANCE: 100 cm EXPOSURE TIME: 90-110 sec The exposure time depends on the applied emulsion quantity. See the TDS for more detailed info	SCREEN: 120 Th/cm LAMP: metal-halogen UV 5000 W DISTANCE: 100 cm EXPOSURE TIME: 8-12 sec
Development 		Dip the screen into water at room temperature for about 5 minutes. Rinse off through a water jet.	Dip the screen into water at room temperature for about 5 minutes. Rinse off through a water jet.	Dip the screen into water at room temperature for about 5 minutes. Rinse off through a water jet.
Retouching 		In case, with the same sensitized photoemulsion which must be re-exposed	In case, with the same sensitized photoemulsion which must be re-exposed	In case, with the same sensitized photoemulsion which must be re-exposed
Hardening 		NO	<b>CATALYST 210</b> if the emulsion has to resist to water-based and plastisol inks	NO
Varnishing 		NO	NO	NO

# PHOTOEMULSIONS FOR GRAPHICS

## SCREEN RECOVERY

Stripping agent application



Apply the product on both sides of the screen and let it work for 5 minutes

Stripping agent rinse off



Remove the product through a water jet (High pressure) and rinse abundantly

Drying



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

Ghost images removal



Apply the product onto the areas of the screen that are to be treated. Let it work for some minutes and rinse off through a water jet (High Pressure)

Use **SOLVENT STRIP / CLEANER STRIP PASTA / SPARK BOON**  
See the TDS for more and detailed info

Product removal



Remove the product through a water jet (High pressure) and rinse abundantly

Drying



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

### NOTES

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



# EPTATECH

a Business Brand by



[www.eptanova.com](http://www.eptanova.com)

## Headquarters

### **EPTATECH S.R.L**

Via A. De Gasperi, 1  
22070 Luisago (CO), Italy  
P. +39 031 9090111  
Fax +39 031 920505  
[info@eptatech.com](mailto:info@eptatech.com)

---

## Market Companies

### **EPTAINKS S.P.A.**

Via Zamenhof, 12 – 36100 Vicenza, Italy  
P +39 0444 914382  
Fax +39 0444 918196

### **EPTA SPAIN S.L.U.**

Can Coll, 15 – naves 22-23  
08185 Lliçà de Vall – Barcelona, Spain  
P +34 93 8439415  
Fax +34 93 8439127

### **EPTA FRANCIA SAS**

42210 - Montrond-les-Bains  
71 Rue De Boissieu  
P +33 04 77 61 97 54  
[serviceclients@eptaf्रancia.fr](mailto:serviceclients@eptaf्रancia.fr)

### **ESAPRINT LLC (OOO)**

Ostashkovskaya Street 22  
127224 Moscow, Russian Federation  
P +7 495 3800278 F +7 495 6086810  
[info@esaprint.ru](mailto:info@esaprint.ru)

### **EPTALAM INDÚSTRIA, COMÉRCIO, IMPORTAÇÃO E EXPORTAÇÃO DE TINTAS LTDA.**

Avenida New Jersey, 1030 – Galpão 01  
Aruja – SP, CEP 07400-000  
P +55 114652 7831  
[info@eptalam.com.br](mailto:info@eptalam.com.br)

### **EPTA CHINA Chemicals Shanghai Co. Ltd.**

Building A12, No.5399, Waiqingsong Road  
Qingpu I.Z. – 201707 Shanghai, China  
P +86 21 69211223 – Fax +86 21 69211311

### **EPTA BANGLADESH Ltd.**

Plot-45, Gulshan South Avenue, Navana Tower  
Shop No. 2567 (3rd Floor)  
Dhaka PO 1212, Bangladesh  
P +880 44 78440077 80 | [info@eptabd.com](mailto:info@eptabd.com)

### **EPTA INDIA (PVT) Ltd.**

No.8, 5th street, Pudhu Thottam, Sheriff Colony  
Tiruppur – 641 604, India  
P +91 421 2216988 – Fax +91 421 2213225  
[info@eptainks.co.in](mailto:info@eptainks.co.in)

### **EPTA NORDIC OY**

Palloilijantie 17  
90670 Oulu, Finland  
P +358 442377532  
[info@eptanordic.com](mailto:info@eptanordic.com)