



PHOTOEMULSIONS FOR GRAPHICS

EPTAINKS

PHOTOEMULSIONS FOR GRAPHICS

TOPICS

CLASSIFICATION BY APPLICATION

THE RANGE

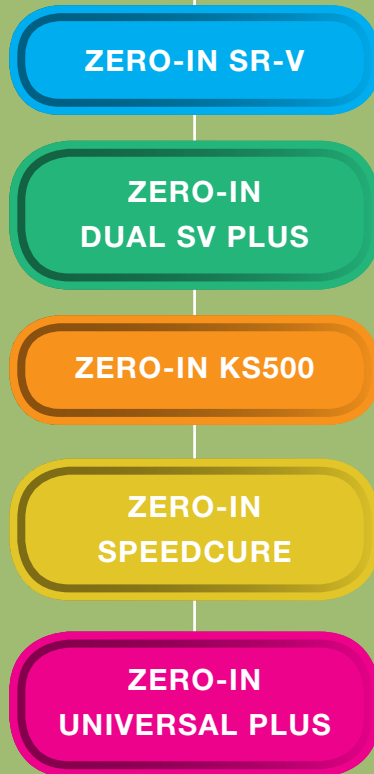
SUMMARY TABLE

WORKING STEPS & ANCILLARY PRODUCTS



PHOTOEMULSIONS FOR GRAPHICS

CLASSIFICATION



PHOTOEMULSIONS FOR GRAPHICS

CLASSIFICATION BY APPLICATION

ZERO-IN SR-V

Signage
Bottles
Decals
Labels
Advertising

ZERO-IN DUAL SV PLUS

PCB
Glass
Signage
Cd
Bottles
Decals
Labels
Advertising
Thermoforming
In-moulding

ZERO-IN KS500

PCB
Glass
Signage
Cd
Bottles
Decals
Labels
Advertising
Thermoforming
In-moulding

ZERO-IN UNIVERSAL PLUS

PCB
Glass
Signage
Decals
Advertising

ZERO-IN SPEEDCURE

PCB
Glass
Signage

PHOTOEMULSIONS FOR GRAPHICS

THE RANGE



WHAT IS IT?

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

TECHNICAL FEATURES

- Quite good exposure latitude
- Quite good outlines definition
- It is indicated for printing with: Solvent Based and UV Inks



PHOTOEMULSIONS FOR GRAPHICS



THE RANGE

ZERO-IN SR-V

GENERAL FEATURES

| | | | | |
|--------------------|------------------|-------------------|-------------------|-------------------|
| APPLICATION | CLASS | SENSITIZER | COLOUR | % SOLID |
| FLAT SCREEN | TRADITIONAL | MICRO HD | VIOLET | 29 |
| VISCOSITY | CATALYSIS | RECOVERY | DEFINITION | RESOLUTION |
| 7500 cPs | NO | YES | 4 | 4 |

RESISTANCES

| | |
|-----------------|-------------------|
| CHEMICAL | MECHANICAL |
| 4 | 4 |

COMPATIBLE INKS

| | | | | |
|----------------|-----------|--------------|-----------|------------------|
| SOLVENT | UV | WB UV | WB | PLASTISOL |
| 4 | 4 | NO | NO | NO |

Key:
0= min
5= max



PHOTOEMULSIONS FOR GRAPHICS

THE RANGE



ZERO-IN
DUAL SV PLUS

WHAT IS IT?

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

TECHNICAL FEATURES

- Good exposure latitude
- Excellent definition and resolution
- It is indicated for printing with: Solvent Based and UV Inks



PHOTOEMULSIONS FOR GRAPHICS

THE RANGE



**ZERO-IN
DUAL SV PLUS**

GENERAL FEATURES

| | | | | |
|-----------------------------------|---------------------------|-------------------------------|-------------------------|------------------------|
| APPLICATION FLAT SCREEN | CLASS DUAL-CURE | SENSITIZER MICRO HD | COLOUR VIOLET | % SOLID 34 |
| VISCOSITY 7500 cPs | CATALYSIS NO | RECOVERY YES | DEFINITION 5 | RESOLUTION 5 |

RESISTANCES

| | |
|----------------------|------------------------|
| CHEMICAL 5 | MECHANICAL 4 |
|----------------------|------------------------|

COMPATIBLE INKS

| | | | | |
|---------------------|----------------|-------------------|-----------------|------------------------|
| SOLVENT 4 | UV 4 | WB UV 2 | WB NO | PLASTISOL NO |
|---------------------|----------------|-------------------|-----------------|------------------------|

Key:
0= min
5= max



PHOTOEMULSIONS FOR GRAPHICS

THE RANGE



ZERO-IN KS500

WHAT IS IT?

Dual-cure emulsion to be sensitized by Diazo-compunds (Diazo Micro HD blister)

TECHNICAL FEATURES

- Excellent resolution
- Excellent definition
- Good mechanical resistance
- It is indicated for printing with: Solvent Based, UV and Plastisol inks



PHOTOEMULSIONS FOR GRAPHICS



THE RANGE

ZERO-IN KS500

GENERAL FEATURES

| | | | | |
|---------------------|------------------|-------------------|-------------------|-------------------|
| APPLICAZIONE | CLASS | SENSITIZER | COLOUR | % SOLID |
| FLAT SCREEN | DUAL-CURE | MICRO HD | VIOLET | 36 |
| VISCOSITY | CATALYSIS | RECOVERY | DEFINITION | RESOLUTION |
| 7500 cPs | NO | YES | 5 | 5 |

RESISTANCES

| | |
|-----------------|-------------------|
| CHEMICAL | MECHANICAL |
| 5 | 4 |

COMPATIBLE INKS

| | | | | |
|----------------|-----------|--------------|-----------|------------------|
| SOLVENT | UV | WB UV | WB | PLASTISOL |
| 5 | 5 | 2 | NO | 4 |

Key:
0= min
5= max

PHOTOEMULSIONS FOR GRAPHICS

THE RANGE



**ZERO-IN
UNIVERSAL PLUS**

WHAT IS IT?

Dual-cure emulsion to be sensitized by Diazo-compunds (Diazo Micro HD blister)

TECHNICAL FEATURES

- High versatility
- Excellent chemical resistance
- Good mechanical resistance
- It is indicated for printing with: Solvent and Water based and Plastisol inks



PHOTOEMULSIONS FOR GRAPHICS

THE RANGE



**ZERO-IN
UNIVERSAL PLUS**

GENERAL FEATURES

| | | | | |
|-----------------------------------|---------------------------|-------------------------------|------------------------|------------------------|
| APPLICATION FLAT SCREEN | CLASS DUAL-CURE | SENSITIZER MICRO HD | COLOUR BLUE | % SOLID 36 |
| VISCOSITY 7500 cPs | CATALYSIS YES | RECOVERY YES | DEFINITION 4 | RESOLUTION 4 |

RESISTANCES

| | |
|----------------------|------------------------|
| CHEMICAL 5 | MECHANICAL 4 |
|----------------------|------------------------|

COMPATIBLE INKS

| | | | | |
|---------------------|-----------------|--------------------|----------------|-----------------------|
| SOLVENT 3 | UV NO | WB UV NO | WB 5 | PLASTISOL 5 |
|---------------------|-----------------|--------------------|----------------|-----------------------|

Key:
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5= max



PHOTOEMULSIONS FOR GRAPHICS

THE RANGE



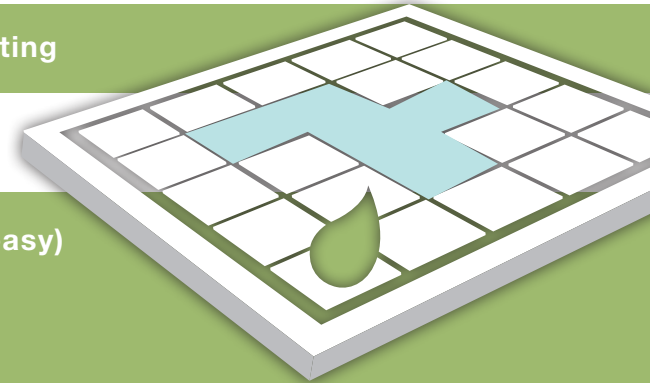
ZERO-IN
SPEEDCURE

WHAT IS IT?

Pure Polymer (ready-to-use) (SBQ) emulsion indicated to prepare screens for high thickness printing

TECHNICAL FEATURES

- Excellent emulsion film transparency (makes the positioning, register, of the printing drawing easy)
- Ready-to-use
- It is indicated for printing with: Solvent and Water based inks, Plastisol, UV



PHOTOEMULSIONS FOR GRAPHICS



THE RANGE

ZERO-IN
SPEEDCURE

GENERAL FEATURES

| | | | | |
|--------------------|--------------|-------------------|---------------|----------------|
| APPLICATION | CLASS | SENSITIZER | COLOUR | % SOLID |
| FLAT SCREEN | PURE POLYMER | NO | LIGHT BLUE | 38 |

| | | | | |
|------------------|------------------|-----------------|-------------------|-------------------|
| VISCOSITY | CATALYSIS | RECOVERY | DEFINITION | RESOLUTION |
| 4000 cPs | NO | NA | 3 | 3 |

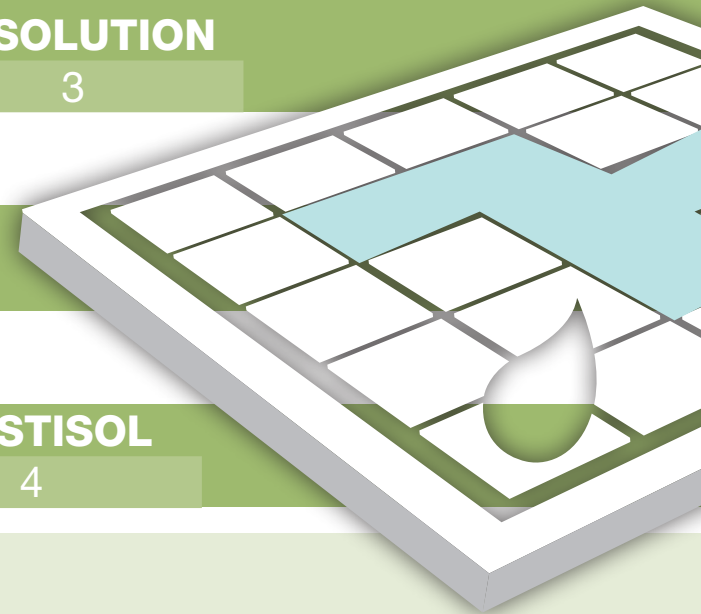
RESISTANCES

| | |
|-----------------|-------------------|
| CHEMICAL | MECHANICAL |
| 5 | 5 |

COMPATIBLE INKS






| | | | | |
|----------------|-----------|--------------|-----------|------------------|
| SOLVENT | UV | WB UV | WB | PLASTISOL |
| 3 | 4 | NA | 3 | 4 |

Key:
0= min
5= max



PHOTOEMULSIONS FOR GRAPHICS

ZERO-IN RANGE

| | | CLASS | SOLVENT | UV | WB UV | WB | PLASTISOL |
|----------------|---|--------------|----------------|-----------|--------------|-----------|------------------|
| SR-V |  | TRADITIONAL | 4 | 4 | NO | NO | NO |
| DUAL SV |  | DUAL-CURE | 4 | 4 | 2 | NO | NO |
| KS 500 |  | DUAL-CURE | 5 | 5 | 2 | NO | 4 |
| UNIVERSAL PLUS |  | DUAL-CURE | 3 | NO | NO | 5 | 5 |
| SPEEDCURE |  | PURE POLYMER | 4 | 4 | NA | 3 | 4 |



PHOTOEMULSIONS FOR GRAPHICS

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 for sticking of meshes to the frames
- Solvents and thinners
- Screen retouching and masking products









PHOTOEMULSIONS FOR GRAPHICS

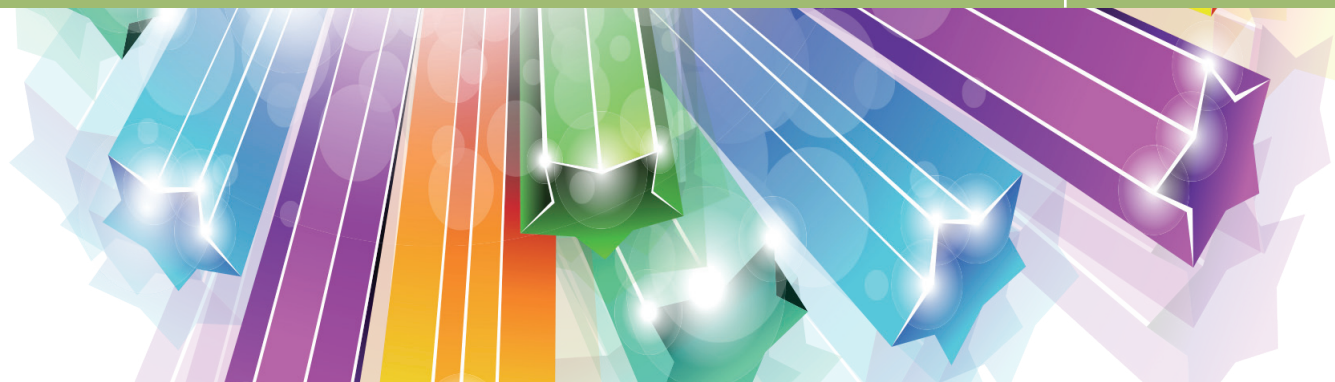
SCREEN PREPARATION

| | SOLVENT RESISTANT | IBRID PHOTOEMULSIONS | 3D APPLICATIONS |
|--|--|--|--|
| Screen degreasing  | CLEANSER 100 | CLEANSER 100 | CLEANSER 100 |
| | TO BE SENSITIZED | | READY TO USE |
| Emulsion preparation  | SR-V; DUAL SV PLUS; KS500 Use DIAZO MICRO HD (Blister) to sensitize the emulsion. It does not require pre-dilution into water. See the TDS for more detailed info | UNIVERSAL PLUS | SPEEDCURE NO |
| Emulsion applicaiton  | 1 external coat + 1 internal coat | 1 external coat + 1 internal coat | See technical data sheets |
| Drying  | [30-35]°c ¹ ¹ The exposure time depends on the applied emulsion quantity | [30-35]°c ¹ ¹ The exposure time depends on the applied emulsion quantity | [30-35]°c ¹ ¹ The exposure time depends on the applied emulsion quantity (minimum 2 hours). |
| Engraving  | SCREEN: 120 F/cm LAMP: metal-halogen UV 5000 W DISTANCE: 140 cm EXPOSURE TIME: [40-70]sec ¹ ¹ The exposure time depends on the applied emulsion quantity. See the TDS for more detailed info | SCREEN: 62 F/cm LAMP: metal-halogen UV 5000 W DISTANCE: 140 cm EXPOSURE TIME: [90-110]sec ¹ ¹ The exposure time depends on the applied emulsion quantity | SCREEN: See TDS LAMP: metal-halogen UV 5000 W DISTANCE: 140 cm EXPOSURE TIME: ¹ ¹ 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 technical data sheets |
| 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 technical data sheets |
| 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 varnished | NO |

PHOTOEMULSIONS FOR GRAPHICS

SCREEN RECOVERY

| | SCREEN RECOVERY | NOTES |
|--|--|--|
| Stripping agent application  | Apply the product on both sides of the screen 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) and rinse abundantly | |
| Drying  | TEMPERATURE: [30-35]° C TIME: 30 MINUTES | Use SOLVENT STRIP & CLEANER STRIP PASTA. See the TDS for more and detailed info |
| 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) | |
| Removal of the product  | Remove the product through a water jet (High pressure) and rinse abundantly | |
| Drying  | TEMPERATURE: [30-35]° C TIME: 30 MINUTES | |





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