



TAMPODUR RP Steel presensitized plate for pad printing

DESCRIPTION

Double sided presensitized steel plate for pad printing, with extra flat hard steel to obtain a perfectly flat surface to guarantee the best printing performance and resolution.

RECOMMENDED APLICATIONS

- For any kind of working and requirement.
- For medium to highest printing quality requirements, with delicate screenings and thin profiles.
- Easy, economical and profitable method of cliché production, to obtain special depths.
- Low manufacturing cost.

MACHINES

Machines with closed inkwell	Excellent.
Machines with open inkwell	Excellent.

CHARACTERISTICS

Emulsion	Photo polymer
Colour	Red
Relative sensitive	Medium
Mechanical Resistance	170 – 190 kp/mm ^{3/4}
Steel hardness	50-52 Rc

AVAILABLE

Maximum sizes	305 mm x 600 mm x 0,25 mm 340 mm x 600 mm x 0,50 mm
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INSTRUCCIÓN OF USE

1. Remove the plastic foil, place the film with the emulsion on the cliché. The exposure time depends on the light source and power. We recommended approximately time reference of:

1'30" – 2,00' minutes with exposure units of 120 W

1'50" – 2,20" minutes with exposure units of 90 W

For another light sources and power, exposure time test is needed.

Note that incorrect times can cause:

- Insufficient exposure times: long or incomplete developing and porosity of the emulsion.
- Excessive exposure times: loss of copy definition and difficulty to stripping the emulsion.

To rasterize, repeat the habitual process.

Note to obtain good results, positives must have good resolution and an opacity of 3.5 is required.



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2. Develop the TAMPODUR RP cliché with our developer **TAMPODUR DEV**. **TAMPODUR DEV** is specially indicated for developing without harming the emulsion, with a good tolerance margin and easy use.

Introduce the cliché in a tray with enough developer. After 20 -30 seconds , softly rub 15 more seconds the surface of the cliché with a cotton or smooth brush, squeeze the developer of the cliché and rinse with water. Dry the cliché with cotton, air, etc...

Before engraving verify possible faults, and use **TAMPODUR FIX** as a retouch lacquer.

3. For steel engraving, we recommend to use **TAMPODUR ETCH**. Other engraving solution and concentrations may change the engraving results.

Engraving with a tray a 22 – 25 °C approx. during 90-120 seconds, an engraving depth 20-25 µ will be obtained. To assure the best steadiness, it would be advisable to apply a smooth brush over the surface during engraving process.

4. Obviously, Ferric Chloride, Nitric acid o Sodium Persulphate could be used as an engraving solution. In this case we recommend:

- Nitric Acid of 36 Bé dissolved at 15% (85 ml water + 15 ml Nitric Acid of 36 Bé) at 20 -24 °C.
- Nitric Acid of 14 Bé dissolved at 50% (50 ml water + 50 ml Nitric Acid of 14 Bé) at 20 -24 °C.
- Ferric Chloride at 39-43 Bé with a temperature of 25 – 28 °C.

5. Once engraved, rinse with plentiful water to remove engraving remains and immediately after, dry the cliché. Emulsion remains will be removed with:

- **TAMPODUR STRIP** eliminates the emulsion with soaked cotton and rubbing the surface.
- **TAMPODUR STRIP-G** eliminates the emulsion and clean the engraved cavities, apply over the plate and rub with a brush.

Note: It would be advisable to use protective gloves during all plate process

ADDITIONAL INFORMATION

www.kopimask.com

Safety data sheet is available through Kopimask or your nearer supplier.

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