

TECHNICAL DATA SHEET

1. IDENTIFICATION OF PRODUCT

ABEPLATE “CTP EVOLUTION”

1.1 Product: Thermal positive offset plate for imaging on CTP platesetter. The coating is sensitive to infrared diode laser (IR) 800-850 nm. For medium-long runs. No preheat required.

Completely compatible with all CTP thermal platesetters and all processors and developers for thermal plates of the rest of systems.

1.2 Company: **ABEZETA S.A.**
C/ Valencia 348
08009 Barcelona (España)

Tel: 34.93. 457 45 04
Fax: 34.93.207 29 05
E-mail: info@abezeta.es

2. THICKNESS

- **Standard:** 0.15mm - 0.30mm
0.40mm also available under minimum production request

3. COATING / EXPOSURE

- Coating colour : blue
- Contrast after developer : High
- Day light sensitivity – UV: Up to 1 hour of exposure does not affect the characteristic of the coating.
- Spectral sensitivity: 800-850 nm. With peak sensitivity at 830 nm.
- Usable on thermal platesetters with internal, external drum or flat bed.
- Energy required : approx. **110-130 mJ/cm²**
- Screen reproduction: **1% - 99%**.
- Resolution: up to 4000 dpi and stochastic screen
- Plate flatness: edge of plate ≤ 2mm, centre of plate ≤ 2,5mm
- Balancer constant: 10.6
- Plate printing with IPA: 8-12%

- Run-length: 50,000 – 100,000 (Unbaked)
100,000 – 200,000 (Baked)

Run-length varies with its printing conditions.

4. DEVELOPMENT

- Use developers and processors adequate for thermal plates.
- Developer temperature:

ABCHA5200A ABEZETA => 23°C 30 seconds
KODAK GOLDSTAR PREMIUM => 25°C 30 seconds
Xingraphic DV-F2 Developer => 24°C 30Seconds
AGFA Elite Developer > 25°C 30Seconds
FUJI Developer can not be used.

- Regenerator: Use self-regenerating developers or regenerators in the proportions indicated by the aforementioned makes.

5. GUMMING

- Apply direct-use gums for short periods of storage.
- For long terms storage, apply gum ABCH 69701 from ABEZETA.
- For hardening of the image by baking, apply suitable gums of well-known makes.

6. DELETION

- Use ABEZETA deletion pens with fine and medium point CTP 8902 / CTP 8903.
- Apply over the area to be corrected and leave for 20-30 seconds. Remove by washing with abundant quantities of water.

7. BAKING

- Hardening of the image by baking will increase the press life of the plate..
- Before baking apply a suitable gum for protection of the press during the process.
- Baking conditions:

Static oven: 200 – 230°C during 8 – 10 minutes
On line oven: 240°C during 5 – 6 minutes

8. ON PRESS

- Fountain solution additives are suitable sheet fed and web machines.
- Recommended pH range: 4.8 – 5.2
- Recommended conductivity range: 800 – 1,500 microsiemens.

9. WAREHOUSING

- Keep away from light and store in a dry place.
- Do not pile up more than 1.000 Kgs.
- Conservation temperature: 22-28°C (*High temperatures can affect the quality of the plate*)
- Relative humidity: Lower than 65%

10. The recommendatory setter of CTP EVOLUTION thermal plates and Developer ref. ABCHA5200A :

Plate Setter Parameter	KODAK	SCREEN PTR8600	Heidelberg	Heidelberg OEM BY SCREEN
(W)power	Wpower=10~15W	Power=90~98%	110-145MW	Power=90~98%
Zoom	N/A	Zoom=1200 (According to actual)	N/A	Zoom=1200 (According to actual)
DS	185rpm	800rpm	360-420rpm	800rpm
Focus(Sd)	Sd=0	Focus=2345 (According to actual)	Focus=280	Focus=2345 (According to actual)
Sr	0.08~0.14	N/A	N/A	N/A
Temp of Dev	23±2°C	23±2°C	23±2°C	23±2°C
Time of Dev	30-45sec.	30-45sec.	30-45sec.	30-45sec.
Resolution	1%~99%	1%~99%	1%~99%	1%~99%

July 2012