

# High resistance Universe HCR

## The most universal

*High Productivity. UV ink resistant. Designed for extreme press conditions.*

Thermal positive offset plate of high chemical resistance on press. For imaging on CTP platesetter, and no pre-bake and post-bake is required. Is suitable for long runs using UV and metallic inks, with alcohol-free and alcohol substitute founts.

### PLATE GAUGES

- ▶ Standard: 0,15 / 0,20 / 0,30 / 0,40 mm.
- ▶ On request: 0,24 mm.

### COATING - EXPOSURE

Coating colour: Blue.  
Contrast after developer: High.  
Day light sensitivity -UV-: Up to 2 hours of exposure does not affect the characteristic of the coating.  
Spectral sensitivity: 800 - 850 nm.  
Usable on thermal platesetters with internal, external drum and flat bed.  
Energy required: Approx. **110-130 mJ/cm²**.  
Screen reproduction: 1 - 99% at 450 l.p.i.  
Resolution: Up to 3200 dpi and stochastic screen.

### DEVELOPMENT

- Use **DEVELOPER IP-T9** in suitable processors for thermal plates.
- ▶ Developer temperature: 23 °C ± 1 °C.
  - ▶ Development time: 30 ± 5 seconds in immersion.
  - ▶ Replenishment: Use **DEVELOPER IP-T9** as a replenisher.
  - ▶ Replenishment rate: 120 ml/m².
  - ▶ Antioxidant Stand by ON: 100 ml/h.
  - ▶ Antioxidant Stand by OFF: 100 ml/h.

### GUMMING

Apply **GUM M-503** ready to use for short period of storage.  
For long terms storage, apply **GUM F-520**.  
For hardening of the image by baking apply **GUM T-511**.

### BAKING

Not required due to its high chemical resistance to UV and metallic inks, alcohol free and alcohol substitute founts. If necessary to increase the press life of the plate, apply GUM T-511 before baking for protection of the plate during the process.

Baking conditions:

- ▶ Static oven: 230 °C during 4 - 5 minutes.
- ▶ On-line oven: 255 °C during 2 - 3 minutes.

### ON PRESS

- PLATE CLEANER A-562** as preparation for the background areas. Avoid its systematic use.  
Fountain solution additives IPAGSA **FOUNT PH** are suitable for all sheet fed and web presses.
- ▶ **Recommended pH range:** 4,8 - 5,2.
  - ▶ **Recommended conductivity range:** 800 - 1.500 µS/cm.

Note: The results obtained may vary depending if the conditions of use are outside of our recommended values.