

# UCR GCR

## Time saving / Efficiency / Better margin

Here at Heidelberg it is important that our customers can run both press and post press equipment as efficiently as possible. As a result, Prinect Production Manager comes with UCR and GCR as standard giving the printer the ability to benefit from improved performance throughout the print shop without additional outlay in time and software.

UCR and GCR are becoming more and more relevant for printers as customers request jobs with a faster turnaround and printed on modern environmentally friendly papers.

We understand the issues this can cause, especially with the fashion for designers to choose a lot of dark areas with significant ink coverage. UCR and GCR are old but traditional methods coming back to the fore helping you print, finish and deliver a job more efficiently.

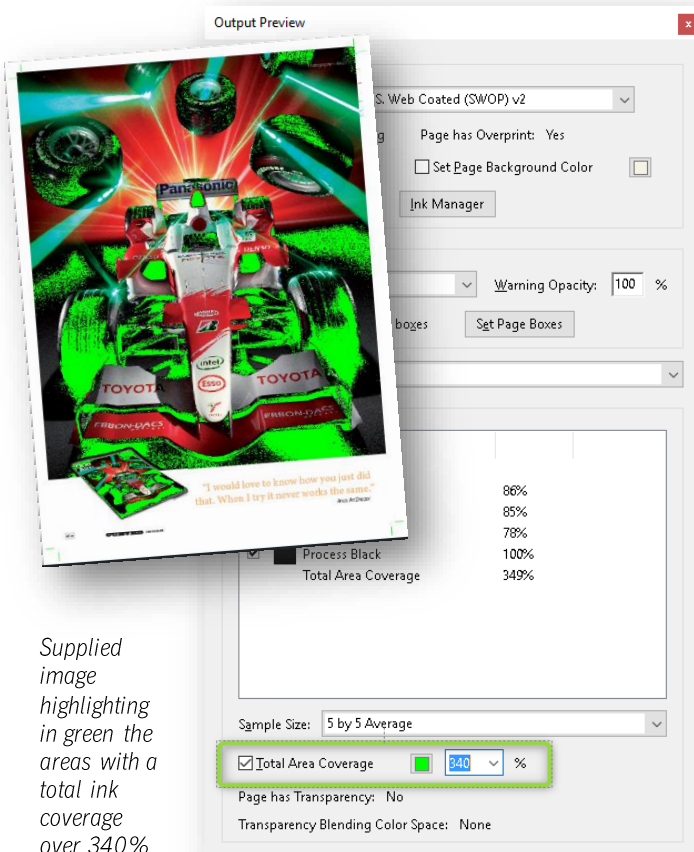
**Under Colour Removal (UCR)** is the technique of reducing chromatic colour in the darkest neutral areas of the image. The image reproduction appears normal but uses less ink and preserves detail in shadow area. Improved drying times and a reduced chance of setting off are benefits to the customer.

**Grey Component Replacement (GCR)** reduces the neutral element of a colour and replaces it with a controlled amount of black along the tonal scale.

### Benefits:

- Less stress on the paper; helping to achieve higher printing speeds.
- Speed of drying; enabling jobs to be finished more quickly and efficiently.
- Less ink; lower coverage in high saturation areas will result in a small benefit.

The examples below show the effects before and after using Max Dot 280%.



Output Preview

S. Web Coated (SWOP) v2

Page has Overprint: Yes

Set Page Background Color

Ink Manager

Warning Opacity: 100 %

Set Page Boxes

Process Black	100%
Total Area Coverage	349%

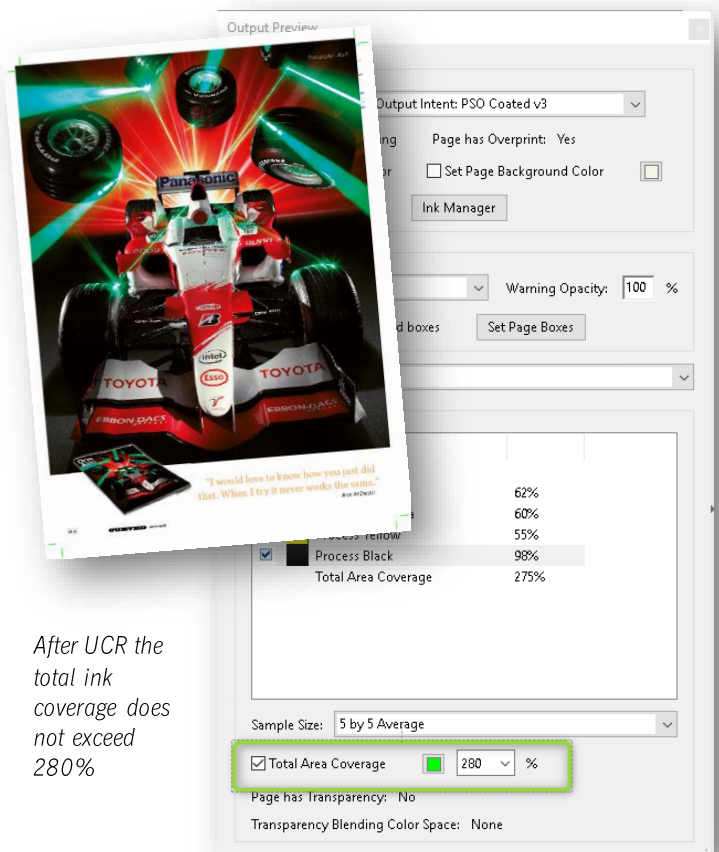
Sample Size: 5 by 5 Average

Total Area Coverage 340 %

Page has Transparency: No

Transparency Blending Color Space: None

Supplied image highlighting in green the areas with a total ink coverage over 340%



Output Preview

Output Intent: PSO Coated v3

Page has Overprint: Yes

Set Page Background Color

Ink Manager

Warning Opacity: 100 %

Set Page Boxes

Process Black	98%
Total Area Coverage	275%

Sample Size: 5 by 5 Average

Total Area Coverage 280 %

Page has Transparency: No

Transparency Blending Color Space: None

After UCR the total ink coverage does not exceed 280%

For more information on how to use this feature please contact Heidelberg on **0844 892 2010**