

# ADVANCED STENCIL TECHNOLOGY

Alfred L Guercio explains the manufacture of advanced films, emulsions and screen chemicals



Alfred L. Guercio

We focus on three clear objectives – first, to improve stencil imaging properties (resolution and acutance); second, to manufacture products that are fully dependable, with reproducible results every time; and third, to develop products that make stencil production faster, easier, and less costly.

In recent months, our corporate focus has yielded exciting dividends – ‘the innovation we promised’ – in three major technological areas.

## ANTI-HALATION EMULSION

This is direct emulsion that is fast-exposing, yet also significantly ‘masks’ light scattering (halation), a principal cause of reduced stencil resolution. The key is Ulano’s development of an exceptionally fast-exposing, pure photopolymer that will not polymerise or age prematurely. Only Ulano has this technology!

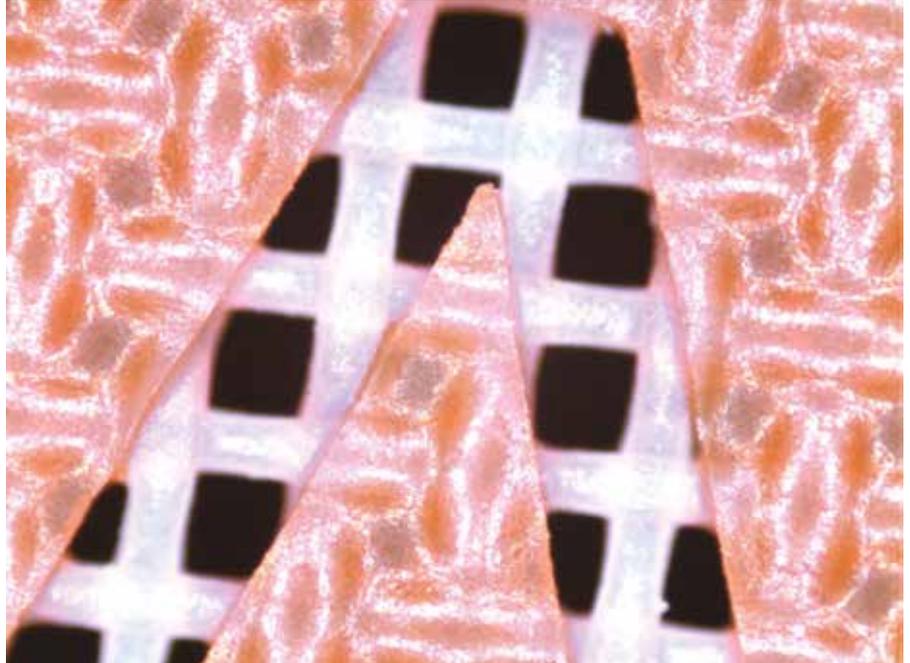
Benefits: Ulano anti-halation emulsions, such as Orange, offer superior resolution without the need to purchase costly dyed mesh in order to avoid halation.

## RD SENSITISING TECHNOLOGY

Advanced photo chemistry enables Ulano to provide its traditional diazo-sensitised and diazo dual-cure emulsions in a pre-sensitised form, with no need to add diazo.

Only Ulano has RD sensitising technology, and we add the suffix EC, which stands for Epic-Cure, to the name of our traditional emulsions to denote this technology.

Benefits: Ulano’s Epic-Cure emulsions, such as Proclaim EC, eliminate mixing errors and the de-bubbling time required by traditional diazo-added emulsions. They are convenient and ready-to-use, with the additional bonus of an extended, 18-month pot life.



Orange, first in a series of Ulano anti-halation emulsions

## ADVANCED-FORMULATION CAPILLARY FILM

Ulano has introduced two advanced-formulation capillary film groups. CDF Vision supersedes traditional diazo-sensitised CDF Direct-Film and diazo dual-cure CDF/LX and CDF/Matrix. CDF Lexar supersedes pure photopolymer-sensitised CDF/QSR.

These are state-of-the-art capillary films and, yes, only Ulano has this technology, too!

Benefits: CDF Vision and CDF Lexar offer the speed and processing simplicity of capillary film with superior imaging properties and solvent resistance.

When asked about future stencil technology, I reply that Ulano Research and Development will look for ways to combine anti-halation



CDF Lexar and CDF Vision

properties with RD sensitising technology in film and emulsion products. And we will continue to develop, as our corporate tag line promises: ‘Advanced Stencil Technology.’

Our goals are very clear – to improve stencil imaging properties, to manufacture products with always-reproducible results, and to make stencil production faster, easier, and less costly. ■

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Proclaim EC utilises Ulano’s proprietary RD sensitising technology