



ZELLER+GMELIN

SBU Rigid Plastic

Sales Conference 2025

Niklas Hamacher

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ZELLER+GMELIN

Rigid Plastic

UVACurid® PrimeCup FCM

C81

UVACurid PrimeCup FCM C81



Updated formulation without PI 379

- + Development of a new version
- + Substitution of the SVHC raw material and keep the current press performance
- + First customer trials in Q3/2024
- + Since the badge 0761115 inks are free of PI 379

The new formulation of UVACurid PrimeCup FCM C81

- + Pressperformance has been maintained
- + Minimised migration
- + Labelled 379-free



➔ Compliant with German Ink Ordinance

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UVACurid® PrimeCup LED FCM

C591

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New products need new inks



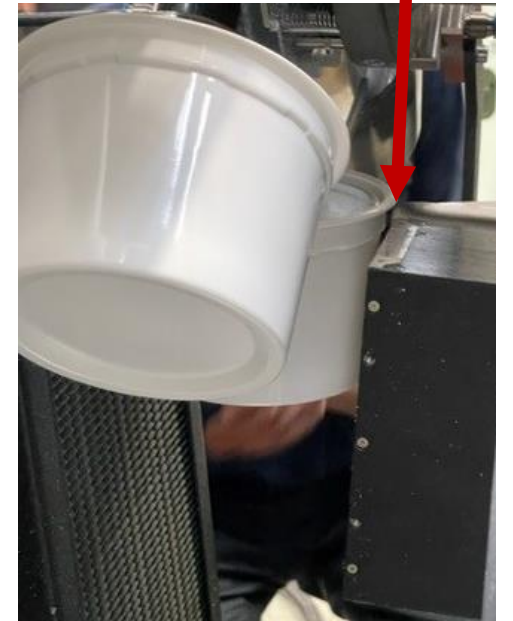
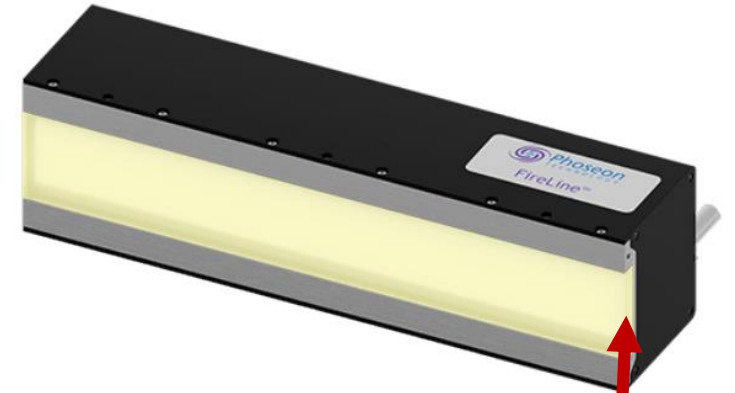
Latest developments

- + Market requirements changed
- + More ultra heat treated milk-based products with a longer minimum shelf life
- + Request for test conditions for migration analyses that cover the changed storage time
 - + 10 days stored in a staple at 40°C
 - + 10 days stored fully filled with ethanol at 60°C

LED UV Ink for Plastic Cups

Development Status

- + Partners: Polytype (CH) + Greiner (AU)
- + LED UV Curing System Phoseon
- + Type: FL440, 16W/cm²
- + Wide window 25mm, longer exposure, high total UV dose
- + No edge on lamp → short distance to cup (2mm)
- + Print Speed aim 700 cups, current max. 700 cups



LED UV Ink for Plastic Cups

Trials in 2024

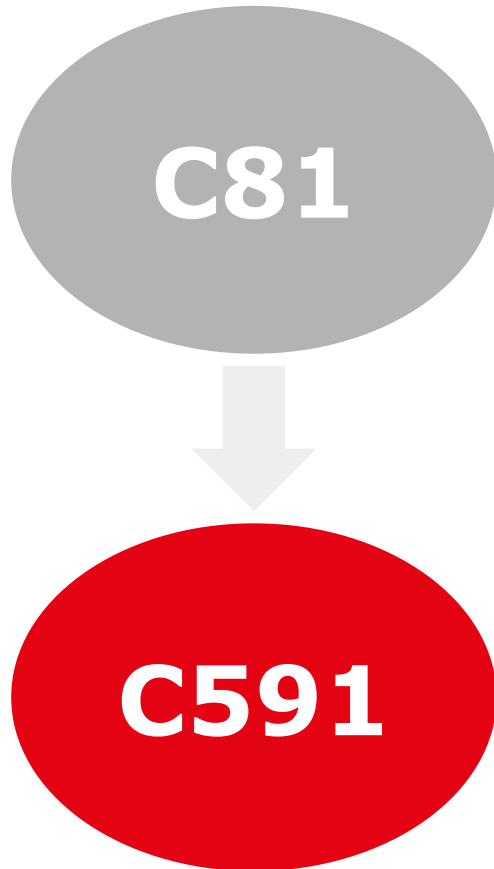
- + Z-Base inks under development
- + Long Run in production
 - + Greiner produced 8h with C591

Further steps in 2025

- + Final evaluation of the inks
- + Launch of the ink series in summer 2025



UVACurid PrimeCup LED FCM C591



Advantages

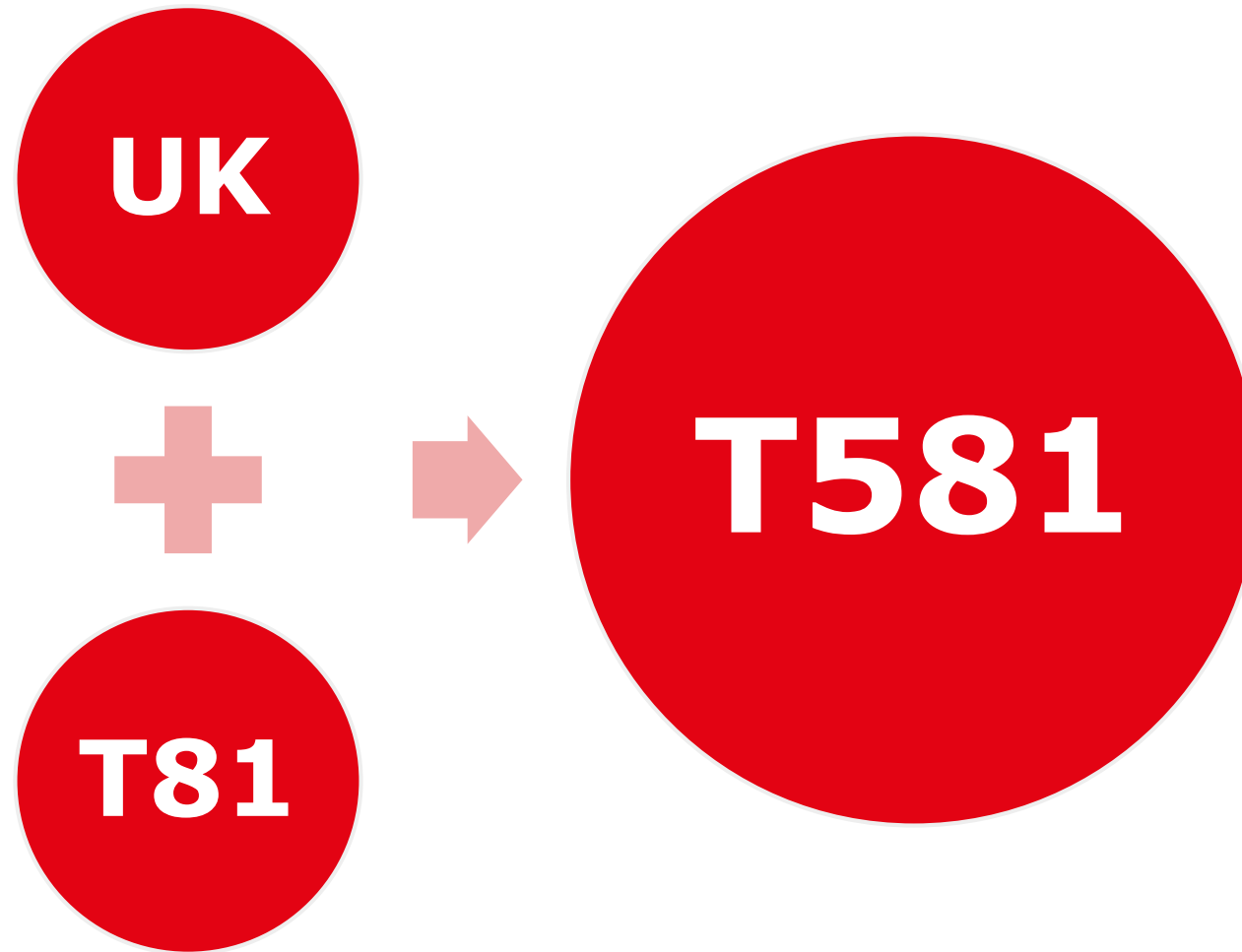
- + Color profile of the C81 retained
- + Dual Cure UV and LED-UV curing
- + Minimised migration - prepared for the worst case scenario
- + Latest raw materials
- + Optimised for highest press performance and stability

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UVACurid® PrimeTube LED FCM

T581

The step that had to be taken



LED UV Ink for Plastic Tubes

Development status

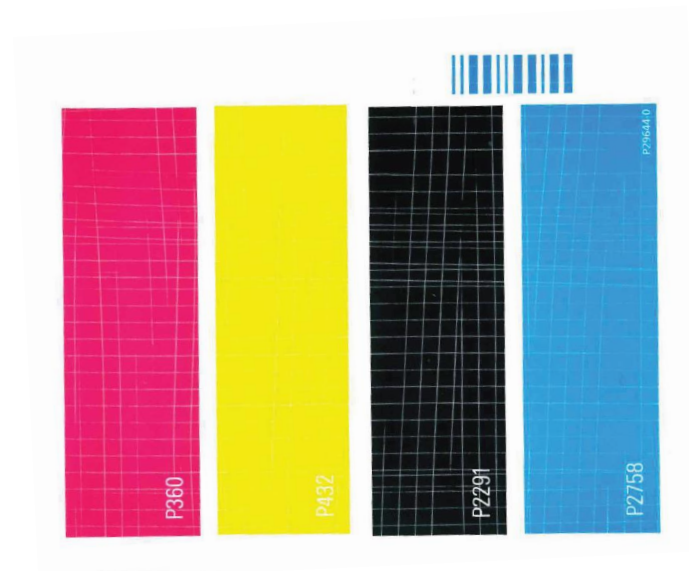
- + Various tests with customers in DACH
- + LED UV Curing System UVTerno
 - + Type: EVO H+ LED 15W/cm²
 - + Flame/ Corona pretreatment
- + Problematic when printing continuously for more than 24 hours
 - + Ink build-up on the blanket



UVACurid PrimeTupe LED FCM T581

Advantages

- + Color profile of the T81 retained
- + Dual Cure UV and LED-UV curing
- + Latest raw materials
- + Optimised for highest press performance and stability
- + Improved resistance in durability tests



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TORACUR® LED

W580

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TORACUR LED W580 - different application



Advantages

- + DualCure: universal drying with UV-Hg and UV-LED
- + CMYK motif layout possible
- + Great brilliance
- + High scratch and abrasion resistance
- + High temperature stability
- + For various substrates

Container Decoration Manual 2025



**Including
LED UV printing
on containers**



**available as PDF
and e-book (.epub)**

A man with a beard is looking through a microscope. The entire image is overlaid with a semi-transparent red color. The text "Thank you for your attention!" is written in large, white, bold letters across the lower-left portion of the image.

**Thank you
for your attention!**