

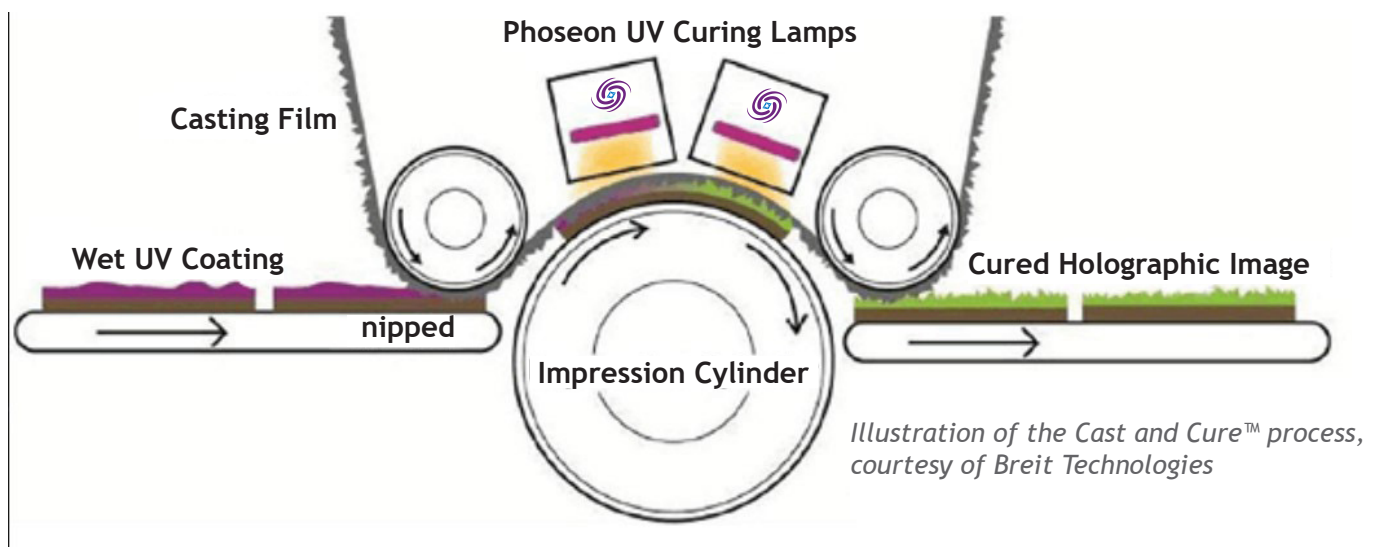
UV LED Curing Solutions for Cast and Curing™ Film

LED Light Sources Proven to Lower Costs

Breit Technology's Cast and Cure™ process is a cost-effective alternative to holographic cold foil and holographic lamination creating dazzling eye-catching effects for labels and product packaging. Breit's 3D holographic images are guaranteed to shine, sparkle, and glow; enhancing the features of your labels and packages to increase shelf appeal.

Process Overview

Cast and Cure is a coating process that utilizes a reusable and recyclable film to emboss holographic effects onto a UV LED curable OPV varnish. After LED light cures the varnish thru the film, the film is then delaminated, leaving an embossed holographic effect on the surface. There is no actual transfer of the film or varnish as the film is delaminated and rewound from the web only to be used again and again.



Additional Advantages of Cast and Curing film:

- ❖ Reduced cost and overall carbon footprint - Cast and Cure film can be reused, potentially over 20 times
- ❖ Can be spot-applied to specific areas
- ❖ Matte - Cast and Cure matte film creates a high scruff-resistant surface as an alternative to standard soft matte varnishes.
- ❖ Security and brand protection features
- ❖ Recyclable - Finished products using Cast and Cure can be recycled

Phoseon UV LED System Advantages over Mercury UV

Phoseon UV LED systems provide a lower cost of ownership alternative to mercury UV and don't emit infrared heat.

- Higher reuses of Cast and Cure film - Because Cast and Cure is a heat-sensitive film, curing the OPV varnish with LED allows for higher reuses of the Cast and Cure film
- No spare parts or maintenance, higher uptime - UV LED requires no spare part bulb replacements or reflectors to clean.
- Lower electricity cost
- No duct required - LED emits no UV-C
- Higher lifetime - Phoseon LED systems have been proven to last 70,000+ hours with less than 10% degradation in our reliability labs
- Higher print speeds - LED cure allows for better cure to keep up with print speeds

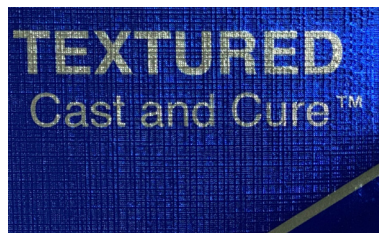
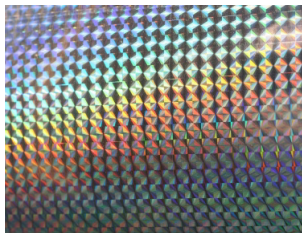
UV LED Curing Applications:

Cartons

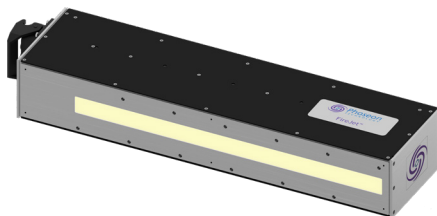
Labels (prime labels, shrink sleeve, flexible film)

Food and tobacco packaging

Balloons



FireJet™ FJ605 Light Source



- Emitting window sizes: 300, 375, 450, 525, 600, 675x20mm
- Peak Irradiance: 20W/cm² at 395nm
- TargetCure & WhisperCure technologies
- High irradiance
- Air-cooled, internal fans circulate ambient air
- Instant On/Off control/cure

Contact Phoseon Today!



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