



## Material Solutions for LED Lighting

Expertise/Closeness/Innovation

The LED signage, controller, and driver segments are about more than just illumination; they're about communication, direction, and durability in our digitally technical age. As these technologies become ubiquitous, they face unique challenges. From enduring outdoor conditions to ensuring consistent brightness and color uniformity, their performance is paramount in delivering clear, vibrant visuals and seamless operation.

With our profound legacy of innovation, ELANTAS is a trusted name in creating robust conformal coatings and potting solutions for the LED signage, controller, and driver markets. Our meticulously engineered materials encapsulate and fortify electronic components, offering them a sanctuary against aggressive environments and rigorous usage. This means your LED systems shine brighter, last longer, and operate flawlessly.

Yet, our commitment doesn't end at protection. Recognizing the diverse and evolving needs of this industry, our coatings and potting materials are crafted to enhance performance and adaptability for specific end-use applications. Whether it's a dynamic billboard in a bustling city square, potting for an automotive light, or drivers for a stadium's giant screen, ELANTAS ensures they remain at their peak performance.

In a world where LED systems are the visual language of modernity, ELANTAS is your partner in crafting that narrative with clarity, brilliance, and reliability. Together, let's illuminate the world with unmatched LED solutions.

## Potting Material Properties\*\*

Product	Chemistry	Application	Curing Mechanism	Mix Ratio (by weight / by volume)	Mixed Viscosity	Shore Hardness	Worklife	UL Flame Class
Conashield™ CS-212	Polyurethane	Controller	RT/HEAT	100:87 100:100	10,000 cP	A 50	6 min	–
Conashield™ CS-313N	Polyurethane	Driver, Controller	RT/HEAT	20:100 25:100	10,000 cP	A 85	8 min	V-0 @ 2.8 mm
Conathane® EN-2523	Polyurethane	Driver, Controller	RT/HEAT	20:100 24:100	2,800 cP	D 50	50 min	HB @ 1.5mm
Conathane® EN-5317	Polyurethane	Signage, Controller	RT/HEAT	100:97 100:100	300 cP	A 70	15 min	–
CONAP® EN-5852	Polyurethane	Driver, Controller	RT/HEAT	20:100 25:100	8,500 cP	A 85	30 min	V-0 @ 2.8mm

\*\*Values provided are typical and can vary pending application and processing conditions

## Conformal Coating Material Properties\*\*

Product	Chemistry	Application	Curing Mechanism	No. of Components	% Solids	Viscosity	Tack Free Time	UL Flame Class
CONAP® CE-1170	Acrylic	Signage	RT / Heat	1	30 %	400 cP	15 min	V-0 @ 1 mil
CONAP® CE-1171	Acrylic	Signage	RT / Heat	1	30 %	900 cP	20 min	V-0 @ 1 mil

\*\*Values provided are typical and can vary pending application and processing conditions

ELANTAS is a global supplier of materials for the electric and electronic industry, including:

### Conformal Coating

Bectron®, CONAP®, Conathane®  
Acrylic/Epoxy/Polyurethane/Polyurethane –  
Alkyd/Polyurethane – Acrylate/Silicone  
1K/2K/UV & Heat Cure/UV & Moisture Cure/Heat  
Cure/Moisture Cure/Air Dry

### Potting & Casting

Bectron®, CONAP®, Conapoxy®, Conashield™, Conathane®  
Epoxy/Polyolefin/Polybutadiene/Polyurethane/Silicone  
1K/2K/Heat Cure/Moisture Cure/RT Cure

### Encapsulation

Bectron®, Conashield™, Conathane®  
Polyolefin/Polyurethane/Polyurethane –  
Acrylate/Silicone  
1K/2K/UV & Moisture Cure/Heat Cure/Moisture Cure

ELANTAS is part of the ALTANA group and is a leading manufacturer of insulating and protecting materials for the electrical and electronics industry. Our portfolio includes wire enamels, impregnating resins and varnishes, flexible electrical insulation materials, casting & potting resins for motors, generators and transformers, as well as conformal coatings for protecting PCBs, modules, or sensors. In addition, we offer a wide range of adhesives, as well as materials for printed electronics.

### ELANTAS North America, Inc.

5200 North Second Street, St. Louis, MO 63147 USA  
Tel (314) 621-5700  
[info.elantas.northamerica@altana.com](mailto:info.elantas.northamerica@altana.com)

[www.elantas.com/pdg](http://www.elantas.com/pdg)

A member of  ALTANA

