



LED Compatible Solutions from Henkel

Henkel is the first adhesive and sealant manufacturer to provide a comprehensive offering of LED compatible products

PERFORMANCE TESTING COMPARISON OF HENKEL
LED COMPATIBLE PRODUCTS ON CREE[®] TEST BOARDS

CREE 
▶ LED Solution Provider



Photo 1: LEDs utilizing Henkel compatible products



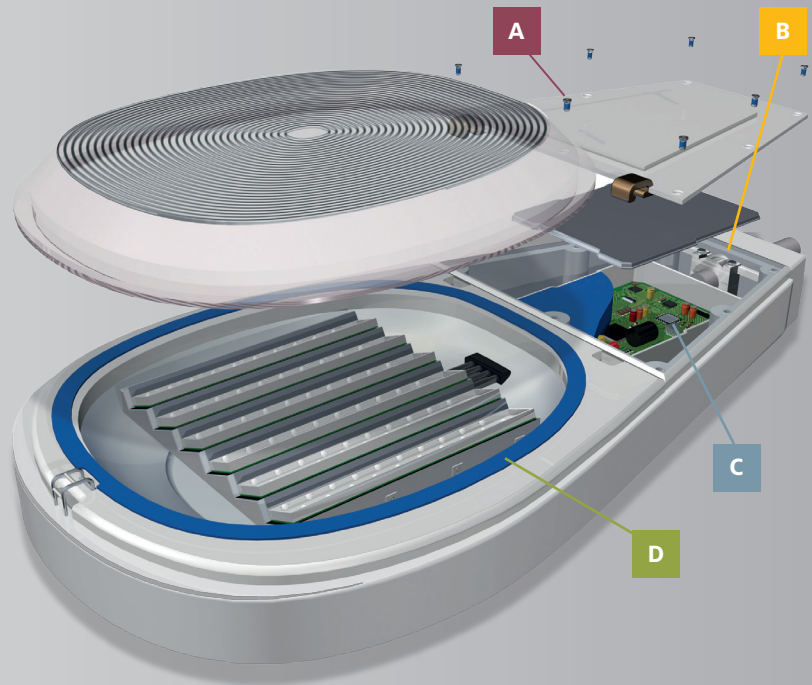
Photo 2: LEDs without Henkel compatible products



New LED technologies have compatibility issues with many different types of adhesives and sealants. In some cases, the presence of these incompatible products in LED assemblies can impair the performance of LEDs. Product tests simulated above show the **superior performance of LEDs utilizing Henkel compatible products.**



LED Compatible Solutions Product Application Guide



A. THREADLOCKING

Prevent threaded parts from loosening due to shock, vibration and thermal expansion.

LOCTITE® PRODUCT	COLOR	DESCRIPTION
246™	Blue	Medium strength, high temperature, removable

B. GENERAL BONDING

Bond sub-component assemblies and basic structural elements.

LOCTITE® PRODUCT	COLOR	DESCRIPTION
E-30CL™	Clear	Two-part, epoxy adhesive
E-90FL™	Grey	Two-part, flexible epoxy adhesive
U-09FL™	Clear	Two-part, polyurethane adhesive
3092™	Clear	Two-part, instant adhesive
UK 1366 B10™	Green	Two-part, polyurethane adhesive
E-40HT™	Off-white	Two-part epoxy

C. POTTING

Encapsulate electrical components and fill structural voids to strengthen and protect.

LOCTITE® PRODUCT	COLOR	DESCRIPTION
E-40EXP™	Grey	Two-part, explosion-proof epoxy
3145™/3165™	Black	Two-part, flame retardant epoxy
5620™	Ultra-clear	Two-part, silicone
5611F™	Grey	Two-part silicone
5611S™	Grey	Two-part silicone
E-60NC™	Black	Two-part epoxy
5623™	Optically clear	Two-part silicone

D. LENS BONDING & SEALING

Prevent moisture, dust, dirt and other contaminants from entering lamp heads.

LOCTITE® PRODUCT	COLOR	DESCRIPTION
E-30CL™	Clear	Two-part, epoxy adhesive
SUPERFLEX®	Clear	One-part RTV sealant
U-09FL™	Clear	Two-part polyurethane adhesive
5510™	Clear	One-part modified silane
5590™	Black	Two-part modified silane
5600™	Black	Two-part, fast-cure, silicone adhesive and sealant
5510™	White	One-part modified silane
5570™	White	One-part modified silane

DIRECT COMPATIBLE

Allows for **DIRECT CONTACT** & proximity to LED

LOCTITE® PRODUCT	DESCRIPTION	APPLICATIONS
U-09FL™	Two-part polyurethane	Lens bonding and sealing; general bonding
5510™	One-part modified silane	Lens bonding and sealing
5600™	Two-part silicone	Lens bonding and sealing
5620™	Two-part silicone	Potting
SUPERFLEX® RTV NON-CORROSIVE	One-part RTV silicone	Lens bonding and sealing
3092™	Two-part instant adhesive	General bonding

INDIRECT COMPATIBLE

Allows proximity to LED; **NO DIRECT CONTACT**

LOCTITE® PRODUCT	DESCRIPTION	APPLICATIONS
246™	Removable threadlocker	Threadlocking
E-30CL™	Two-part epoxy	Lens bonding and sealing; general bonding
E-40EXP™	Two-part epoxy	Potting
E-90FL™	Two-part epoxy	General bonding
UK 1366 B10™	Two-part polyurethane	General bonding
3145™/3165™	Two-part epoxy	Potting
5590™	Two-part modified silane	Lens bonding and sealing
E-40HT™	Two-part epoxy	General bonding, potting
5510™	One-part modified silane	Lens bonding and sealing
5570™	One-part modified silane	Lens bonding and sealing
5611F™	Two-part silicone	Potting
5611S™	Two-part silicone	Potting
E-60NC™	Two-part epoxy	Potting
5623™	Two-part silicone	Potting

FOR MORE INFORMATION CONTACT:

Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067
1.800.LOCTITE (562.8483)
1.905.814.6511 (In Canada)

www.henkelna.com/ledcompatibility



Global Distributor of Henkel LOCTITE
(800) 888-0698 info@ellsworth.com

