

# LOCTITE®



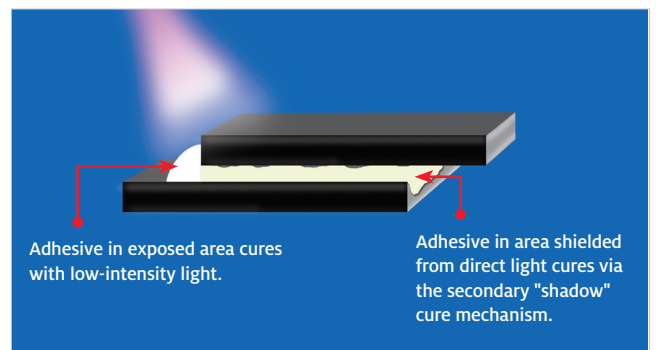
## Cured in a FLASH

### Introducing **NEW** Flexible and Toughened Flashcure® Adhesives

Henkel Corporation has revolutionized the adhesive industry with **LOCTITE® Flashcure® Light Curing Cyanoacrylates**. This unique technology allows these single-component adhesives to cure in seconds when exposed to light at the appropriate wavelength and provides superior adhesion to a wide variety of substrates. With its secondary shadow cure mechanism, Flashcure® technology provides all the benefits of light cure acrylic and cyanoacrylate technologies with none of the limitations.

### FEATURES AND BENEFITS

- Extremely **fast tack-free** curing in 2-5 seconds
- Cures with **UV/visible** light AND in **shadowed** areas
- **Fluorescent** for inspection purposes
- Eliminates need for accelerators
- **Good adhesion** to plastics, elastomers and metals
- ISO 10993 **Biological Tested**



1-800-LOCTITE (562-8483)

[na.henkel-adhesives.com/medicaladhesives](http://na.henkel-adhesives.com/medicaladhesives)

Henkel



A new flexible formula, **LOCTITE® 4314™**, has been added to Henkel's unique line of Flashcure® dual cure adhesives, specifically designed for bonding flexible or soft substrates. The toughened Flashcure® products (**LOCTITE® 4310™ and 4311™**) offer all of the benefits of the traditional technology with the added benefits of impact resistance and fracture toughness.

**LOCTITE® 4306™**, one of the original Flashcure® adhesives from Henkel, offers a low viscosity for tight fitting parts or small assembly gaps.

PERFORMANCE DATA	TRADITIONAL	TOUGHENED		FLEXIBLE
	4306™	4310™	4311™	4314™
Color	Clear to pale green	Clear to pale green	Clear to pale green	Clear to pale green
Fluorescence	Yes	Yes	Yes	Yes
Gap Fill	3.048 mm (0.12")	3.048 mm (0.12")	3.048 mm (0.12")	3.048 mm (0.12")
Viscosity	20 cP	150 cP	900 cP	175 cP
Block Shear Strength	15.2 N/mm <sup>2</sup> (2,200 psi)	21.99 N/mm <sup>2</sup> (3,190 psi)	21.99 N/mm <sup>2</sup> (3,260 psi)	16.55 N/mm <sup>2</sup> (2,400 psi)
Fixture Speed	5 sec.	5 sec.	5 sec.	5 sec.
Tensile Strength (bulk adhesive)	32.54 N/mm <sup>2</sup> (4,720 psi)	33.37 N/mm <sup>2</sup> (4,840 psi)	33.37 N/mm <sup>2</sup> (4,840 psi)	24.13 N/mm <sup>2</sup> (3,500 psi)
180 Peel (steel)	2.10 N/mm (12 lb./in.)	2.45 N/mm (14 lb./in.)	2.98 N/mm (17 lb./in.)	N/A
Side Impact	8 J	13 J	14 J	N/A
Fracture Toughness (steel, 5mm gap)	0 J/m <sup>2</sup>	880 J/m <sup>2</sup>	840 J/m <sup>2</sup>	N/A
Temperature Range	-65°F to 180°F (-54°C to 82°C)	-65°F to 180°F (-54°C to 82°C)	-65°F to 180°F (-54°C to 82°C)	-65°F to 180°F (-54°C to 82°C)
ORDERING INFORMATION	TRADITIONAL	TOUGHENED		FLEXIBLE
	4306™	4310™	4311™	4314™
28 grams (1 ounce) bottle	487909	1401792	1401791	2610570
454 grams (1 pound) bottle	487921	1401790	1401789	2610581



### Dispensing

LOCTITE® Flashcure® Light Cure Adhesives can be dispensed manually or with LOCTITE® dispensing systems. See [www.equipment.LOCTITE.com](http://www.equipment.LOCTITE.com) for more details.



### Curing

LOCTITE® Flashcure® Light Cure Adhesives can be cured with low-intensity UV or visible light. Henkel's newest LED curing units are ideally suited for a rapid, tack-free cure of all Flashcure® adhesives.



### Difficult Bonding Applications

For difficult-to-bond substrates such as polyethylene and polypropylene, use LOCTITE® Flashcure® Light Cure Adhesives with LOCTITE® Polyolefin Primers.

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#### HENKEL CORPORATION ENGINEERING ADHESIVES

[www.henkeln.com/industrial](http://www.henkeln.com/industrial)

