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dard for World Class Quality



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FREE Users Guide to Adhesives

Part 1 Assessment of Bonding

Part 2 Essential stages of the Pretreatment Process

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ADHESIVE FOCUS

On-Hand Adhesives, Inc.
Adhesive Tech Center
1850 So. Elmhurst Road
Mount Prospect, IL 60056

Spring 2004 Issue

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The Glu Guru™'s Catalog of Adhesives can be seen on: www.gluguru.com

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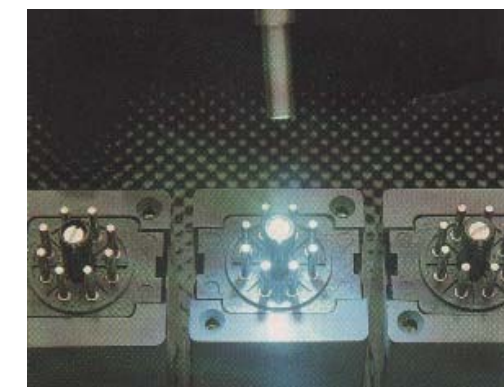
ADHESIVE FOCUS

Volume X Issue 1

SPRING 2004

BONDING

Light Cure Adhesives



Versatile Loctite **Ultraviolet (UV)** and **Visible Light Curing Adhesives** can be used in bonding, encapsulating, coating, tacking and sealing applications. These single-component, solvent-free products cure in seconds when exposed to UV/visible light sources. Some light cure adhesives can be combined with activator curing methods to meet specific application requirements.

ACRYLIC UV CURE ADHESIVES

Loctite® 3103 Light Cure Adhesive

Thixotropic, flexible, low modulus, medium viscosity, UV/visible light cure adhesive for flexible bonds and reduced stress cracking on plastics. Cures through UV blocked and tinted substrates. Also for potting, sealing, and gap filling.

Typical Applications

Loctite® Product 3103 is primarily designed for bonding polycarbonate to itself, while not inducing stress cracking under typical molded in stress levels. Its flexibility enhances the load bearing and shock absorbing characteristics of the bond area.

Loctite® 3105 Light Cure Adhesive

A high strength, low viscosity, UV/visible light cure adhesive. Primarily designed for bonding rigid and flexible PVC to polycarbonate. Enables easy assembly of components with close-fitting tolerances. Recommended for applications involving small gaps less than 0.25 mm.

Typical Applications

Loctite® Product 3105 is primarily designed for bonding rigid or flexible PVC to polycarbonate. These characteristics enable easy assembly of components with close fitting tolerances (i.e. joining polycarbonate to flexible PVC tubing)



ACRYLIC UV CURE ADHESIVES

Loctite® 3494 Light Cure Adhesive

A durable, visible/UV cure, medium viscosity adhesive designed for glass and metal bonding.

Typical Applications

Designed for potting, sealing of electronic connectors. High adhesion for difficult-to-bond substrates.

Loctite® 352 Light Cure Adhesive

Clear/light amber color structural adhesive with UV, heat and activator cure. Creates a tough, flexible bond resistant to vibration and shock. Primary use is bonding. Key substrates are glass and metal. Viscosity at 25°C is 19,500 cP. Available Worldwide

Typical Applications

Used to bond, seal or coat metal and glass components in industrial applications. Typical uses include unitizing electrical devices, appliance parts and decorative components

Loctite® 3525 Light Cure Adhesive

A visible/UV cure, high viscosity adhesive. Fast cure, colorless bonds. Excellent flexibility, toughness, and durability to moisture exposure. Fluorescent. Used to bond glass, metal, and plastics.

Typical Applications

Used to bond glass, metals and plastics for industrial applications.

Loctite® 3526 Light Cure Adhesive

A visible/UV/heat cure version of 3525. All the properties of 3525 plus low temperature rapid heat cure capabilities (250°F). Fast cure even under low energy sources. Fluorescent.

Typical Applications

Glass, metal, thermoset plastic

Loctite® 3106 Light Cure Adhesive

A high strength, medium viscosity, thixotropic, UV/visible light cure adhesive. Designed primarily for bonding rigid and flexible PVC to polycarbonate where large gap filling capabilities and a flexible joint are desired.

Typical Applications

Loctite® Product 3106 is primarily designed for bonding rigid and flexible PVC to polycarbonate where large gap filling capabilities (0.25mm) and a flexible joint are desired. Its flexibility enhances the load bearing and shock absorbing characteristics.

Loctite® 3108 Light Cure Adhesive

A low durometer, rubbery, UV cure adhesive for potting and sealing of plastic, glass, and metal. Very flexible and resilient.

Typical Applications

Loctite® Product 3108 is primarily designed for potting and sealing of plastic, glass and metal substrates that must withstand thermal cycling and environmental exposure. It has also shown excellent capabilities in bonding dissimilar rigid substrates.

Impruv® 349 Light Cure Adhesive

Clear/straw color UV adhesive. Forms tough clear bond even in large gaps. Primary use is bonding; ideal for glass bonding. Key substrates are glass and metal. Viscosity at 25°C is 9,500 cP. Available Worldwide

Typical Applications

Bonds and seals glass to glass or glass to metal components such as precision optical instruments, furniture and industrial devices. The electrical properties of this product also make it suitable for potting and tacking applications.

CYANOACRYLATE UV CURE ADHESIVES

Flashcure 4302 Light Curing Instant Adhesive

New patented technology. Two component, low to high viscosity. Specifically formulated for extremely rapid UV or visible light cure and secondary cyanoacrylate cure mechanism. Eliminates the need for solvent based accelerators.

Typical Applications

Elastomer, metal, polycarbonate, thermoplastic

Flashcure 4303 Light Curing Instant Adhesive

New patented technology. Two component, low of high viscosity. Specifically formulated for extremely rapid UV or visible light cure and secondary cyanoacrylate cure mechanism. Eliminates the need for solvent based accelerators.

Typical Applications

Elastomer, metal, polycarbonate, thermoplastic

EPOXY UV CURE ADHESIVES

Loctite® 3336 Light Cure Epoxy Adhesive

A UV cure, medium viscosity, two-part epoxy. UV cure effects fast gelation. Complete cure at room temperature or heat cure. Tough and durable. Designed for potting, bonding, and sealing.

Typical Applications

Metal, thermoplastic

SOME OF THE PRODUCTS LISTED IN THIS NEWSLETTER ARE ALSO VISIBLE LIGHT CURE ADHESIVES

SILICONE UV CURE ADHESIVES



Nuva-Sil® 5088 Potting Compound

A medium viscosity, thixotropic, non-corrosive UV curing silicone for high speed, shallow potting of sensitive substrates.

Typical Applications

UV-curing silicone for high-speed potting of corrosive sensitive substrates.

Nuva-Sil® 5091 High Adhesion Potting Compound

A low viscosity, self-leveling, UV curing silicone for high speed shallow potting, coating, and sealing of electronic connectors. Provides high adhesion for difficult-to-bond substrates.

Nuva-Sil® 5092 High Adhesion Potting Compound

A low viscosity, self-leveling, noncorrosive UV curing silicone for high speed shallow potting, coating, and sealing of electronic connectors. Excellent adhesion to engineering plastics, gold, brass, and tin-plated leads.