

Light Cure Flood Systems

Loctite® brand flood systems are modular low and medium intensity ultraviolet and high intensity visible light emitting units designed for the batch curing of light curing adhesives and coatings. Selection of a Loctite® brand flood system is based on the required intensity of light and cure area.



For proper eye protection,
use Loctite® brand ultraviolet
safety glasses, Item # 97210

**Loctite® ZETA® 7411-S
UV Flood System**

**Loctite® ZETA® 7500
Portable UV Spot Lamp**

**Loctite® ZETA® 7420
Visible Light Flood System**

	 (Shown with Optional Shutter Assembly - 98420)		
Item #	98413	980127	98060/98182**
Useful Cure Area	8" x 8"	1" x 1"	12" x 12" typical
Lamp Type	Metal Halide	Fluorescent	Visible Arc Lamp
Output Intensity	Medium	Low	High
Lamp Power	400 W	100 W	1,500 W
Optional Shutter Assembly	98420	-	-
Optimized Spectral Output Range	UVA	UVA	Visible Blue and Green
Optional Bulb Types	Visible Light Enhanced Metal Halide	-	-
Replacement Bulbs (Item # - Type)	97246 - UV Lamp 983050* - Visible Lamp	982033 - Mercury Vapor Bulb, 110 W	985940 - Visible Arc Lamp, 1,500 W
Replacement Filter Glass	988159	-	-

*Optional

**The Loctite® ZETA® 7420, Item 98182, is a 230 VAC/50 Hz system.

Loctite® ZETA® 7411-S UV Flood System, Item 98413

The Loctite® ZETA® 7411-S UV Flood System is designed for use in a wide range of bonding, potting, tacking and sealing applications. Because of its reliability and simplicity, it is well suited for most production operations. The Loctite® ZETA® 7411-S can accept multiple part sizes. An optional timed control shutter (as displayed) or visible enhanced metal halide lamp are also available.

Features

- Contains a 4 inch, 400 Watt Metal Halide Bulb**
- Optimized to emit in the UVA region
- Typical curing area of 8" x 8"
- 1,000 hours of expected UV bulb life with proper handling and maintenance
- Power supply can be separated from the lamp base assembly
- Lamp height is adjustable to a maximum height of 11¾" from pad
- Contains a glass filter to reduce the short and medium wavelength lamp emissions
- The work surface is covered by a special silicone rubber pad to resist UV deterioration and chemical attack

Theory of Operation

The operator places the bonded assembly into the cure area, allows the assembly to be exposed for the proper time, and manually removes the cured assembly. In addition, the light source can be pulled from the power supply and mounted over a conveyor belt for a more automated use of the equipment.

Technical Specifications

Utilities: 120 VAC, 8 amps, 60 Hz
 Lamp Type
 (Visible and UV enhanced): 400 Watt Metal Halide
 Size: 26.25" H x 12" W x 11.25" D
 Weight: 37 lbs.

** See page 74 for spectral output of the metal halide bulb.



(Shown with Optional Shutter Assembly - 98420)

List of Loctite® Brand Parts Supplied

- | | |
|---|--|
| (1) UV Power Supply | (1) Power Cord |
| (1) Height Adjustment for Reflector Housing | (1) Reflector Housing with Flexible UV Curtain Shield Attached |
| (1) UV Protective Eyewear | (1) Cotton Gloves |
| (1) Reusable Shipping Box Foam Packaging | (1) Manual |

Options

- | | |
|--------|---|
| 98420 | Loctite® Time Controlled Shutter |
| 98086 | Loctite® ZETA® 7011-A Dosimeter-Radiometer |
| 983050 | Loctite® Visible Light Enhanced Metal Halide Bulb |
| 985022 | Loctite® Optional Head Extension Cable |

Replacement Parts

- | | |
|--------|---|
| 984967 | Loctite® Replacement Silicone Work Surface |
| 988159 | Loctite® Replacement Filter Glass |
| 988173 | Loctite® Replacement Light Blocking Curtain |
| 97246 | Loctite® UV Lamp - 400 Watt Metal Halide |

Loctite® ZETA® 7500 Portable UV Spot Lamp, Item 980127

The Loctite® ZETA® 7500 UV Spot Light is a portable UV spot lamp equipped with a 100 Watt mercury vapor bulb with a typical curing area of 1" in diameter. This unit can be mounted for automated curing as parts move past the lamp, or can be used for low volume, manual assembly. The unit is ideal for low-energy, UV curing of adhesives or coatings in small areas.

Features

- Contains a 100 Watt Mercury Vapor Bulb
- Optimized to emit in the UVA region
- Typical curing area of 1" x 1"
- Adjustable light direction

Theory of Operation

An operator will assemble parts with a low energy, UV curing adhesive or coating and manually or automatically place the part under the lamp for cure.

Technical Specifications

Utilities: 115 VAC, 5 amps, 60 Hz
 Size: 17.27" H x 9.88" W x 5.88" D
 Weight: 12 lbs.

List of Loctite® Brand Parts Supplied

- (1) ZETA® 7500 Portable UV Spot Lamp

Options

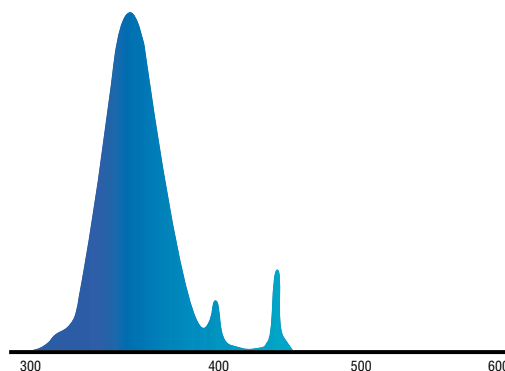
- 98086 Loctite® ZETA® 7011-A Dosimeter-Radiometer

Replacement Bulb

- 982033 100 Watt Mercury Vapor Bulb



Spectral Output of Black Lamp



Loctite® ZETA® 7420 Visible Light Flood Systems, Items 98060, 98182

The Loctite® ZETA® 7420 Visible Light Flood Systems (98060 with 120 VAC and 98182 with 230 VAC) are the latest entries into the light cure equipment field. They represent an innovative, extremely cost-effective approach to "high-intensity" curing. These systems are designed for use in a wide range of bonding, potting, tacking and sealing applications. Their reliability and simplicity are well suited to a variety of production operations. Most Loctite® brand light cure adhesives with dual cure capability (UV/Visible) are compatible with these systems, including Loctite® brand 3103™, 3105™, 3106™, 3107™, 3494™, 3525™, 3526™, 4304™ and 4305™ Light Curing Adhesives.

Features

- High intensity 1,500 Watt bulb
- Optimized to emit in the visible blue and green region
- Typical curing area of 12" x 12"
- 1,000 hours of expected bulb life with proper handling and maintenance
- Lamp and Power Supply are separate for installation flexibility
- Lamp includes mounting chains for easy attachment to customer fixtures
- Contains a glass filter to reduce the short and medium wavelength lamp emissions

Theory of Operation

The operator places the bonded assembly into the cure area, allows the assembly to be exposed for the proper time, and manually removes the cured assembly. In addition, the light source can be pulled from the power supply and mounted over a conveyor belt for a more automated use of the equipment. Shielding for the high-intensity visible light must be provided by the customer.

Technical Specifications

Utilities:

98060	120 VAC, 13.5 amps, 60 Hz
98182	230 VAC, 7.0 amps, 50 Hz

Lamp Type: Visible arc lamp

Size: Lamp: 9.5" H x 23.6" W x 20.75" D
Power Supply: 8.95" H x 7.75" W x 14.9" D

Weight: 80 lbs.



List of Loctite® Brand Parts Supplied

- (1) Lamp with Bulb and Filter Glass
- (1) Power Supply
- (1) Manual

Replacement Parts

985940 1,500 Watt Visible Arc Bulb

Options

98089 Loctite® ZETA® 7011-V Dosimeter-Radiometer

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