

## 7. MOUNTING

A handpiece hanger is supplied for mounting adjacent to high speed handpieces or three way syringe. For European type units *the CURE* will fit into handpiece receptacles.

## 8. CURE TIMES

A3 shades and lighter typically take 6-8 seconds to cure. Darker shades and flowables may take longer. It is recommended that dentists run their own tests, using a sharp instrument to determine if the bottom section is as hard as the top.

## 9. LIGHT MEASUREMENT

To ensure proper curing, a radiometer should be used on a regular basis to measure the light intensity. There should be little variation over time since *the CURE* lifetime is extremely long. If the reading drops off, check to see if the lens is clear. If not, clean or replace it.

## 10. CLEANING / DISINFECTING

DO NOT IMMERSE IN LIQUID. Thoroughly wipe the handpiece with cleaning solution or soap and water. Disinfect by wiping down with alcohol, phenolic or glutaraldehyde disinfectants per the disinfectant manufacturer's instructions.

## 11. LIABILITY

Spring Health considers itself responsible for the safety and performance of the product only if installation or modifications are done by persons authorized by Spring Health, the electrical installation meets local requirements, and the equipment is used in accordance with these instructions.

# OPERATION MANUAL *the CURE*

## Box Contents:

<u>QTY</u>	<u>DESCRIPTION</u>
1	<i>the CURE</i> handpiece with 8mm lens
1	Power supply, AC adapter
2	Light shields – for eye protection
50	Sleeves – for protective barrier
1	Wrench – for changing lens
1	Handpiece hanger
1	Operation Manual and Warranty Card

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## 1. DESCRIPTION

*the CURE* is an LED dental curing light for the polymerization of dental composites, sealants and adhesives.

## 2. ERGONOMIC FEATURES

- a) Light weight
- b) Shape resembles a high speed handpiece and can be held like one.
- c) Can be mounted in same manner as a high speed handpiece.  
A hanger is supplied for use when needed.
- d) Either of two buttons will activate the light allowing for choice of finger positions.
- e) *the CURE* has smooth surfaces for easy cleaning.

## 3. SPECIFICATIONS

- a) AC Input 90-260 volts AC (50 or 60 cycles)
- b) Mains Plug Specify country
- c) Power Input 10 watts
- d) Voltage to Handpiece 9 volts DC regulated
- e) Operation: Continuous operation with intermittent loading. Duty cycle of 16 seconds on and 15 seconds off.
- f) Lamp Ultra-high output LED. Service center replacement only. Life expectancy is in excess of 5000 hours.
- g) Output Wavelength 450 to 490 nm
- h) Output Intensity Greater than 1000 mw/cm<sup>2</sup>
- i) Variable Light Intensity Single click starting button for high intensity. Double click for 500 mw/cm<sup>2</sup> intensity.
- j) Thermal Safety Handpiece thermostat protection. Unit will shut off for a brief time and four beeps will be heard.
- k) Fuse Internal to handpiece, automatic reset.
- l) Shutoff After sixteen seconds of operation or by clicking the start button when the light is in use.

## 4. CONTRAINDICATIONS

*the CURE* has a narrow peak at 470 nm and should only be used on dental formulations containing camphorquinone as the photo initiator; it is contraindicated with other photo initiators. To date the only known resins that will not cure properly with this light are: Pyramid Enamel (Bisco), Principle (Dentsply Caulk) and Den Mat (Core Build-up). **The practitioner should always perform a test outside of the mouth if in doubt.**

## 5. SAFETY PRECAUTIONS

**CAUTION:** The light is provided in a non-sterile condition and must be disinfected prior to patient contact. **CAUTION:** This curing unit produces high output curing energy. A significant increase in curing energy is possible compared with equipment previously used. It is important to observe the following precautions and procedures. **CAUTION:** Do not place light directly on or towards unprotected gingiva or skin. **CAUTION:** Adjust the curing techniques in accordance with the increase in curing energy. Some examples are: decrease curing time, increase composite thickness, increase distance between the tip of the curing light and light cured materials. **CAUTION: Do not look directly at the light emitted from this curing unit.** Do not use this device without suitable protective eyewear for the operator, assistant and patient. Suitable protective eyewear blocks all energy below 550 nm. **ATTENTION:** Safety protective barrier sleeves (curing sleeves) should be changed after each patient.

## 6. OPERATION / INSTALATION

Single click either button to start High Power cure, or rapidly double click either button to start Low Power cure. Every two seconds a single beep (audible sound) will be heard while in High Power. A double beep will be heard while in Low Power. The cycle will stop after 16 seconds, or it can be interrupted by pressing either button.

### Step Cure (starting with Low Power):

Double click to go into Low Power. A double beep will be heard every 2 seconds. After stop, single click to start High Power. A single beep will be heard every 2 seconds. The cycle will stop after 16 seconds or press either button to end.