

1. DESCRIPTION

The **CURE 24** is a LED dental curing light for the polymerization of dental composites, sealants and adhesives. The **CURE 24** is designed for direct wired installation in a dental unit console providing 12 to 28 volts. Models can be ordered for AC or DC installations.

2. ERGONOMIC FEATURES

- a) Light weight
- b) Shape resembles a high-speed handpiece and can be held like one.
- c) Can be mounted with a flat mount surface hanger or Hard Handpiece Hanger (optional)
- d) Either of two buttons will activate light allowing for choice of finger positions.
- e) **the CURE 24** has a smooth white powder coated surface for easy cleaning.

3. SPECIFICATIONS

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|-------------------------|---|
| a) Hard wire enabled | Proper installation in a 24v dental unit by a technician, recommended. |
| b) Power Input | 10 watts |
| c) Voltage to Handpiece | D/C regulated: 12 to 28 volts |
| d) Operation | Continuous operation with intermittent loading. Duty cycle of 20 sec. on and 15 sec. off. 8 timer settings. |
| f) Lamp | Ultra-high output LED. Service center replacement only. Lifetime is 5000 hrs minimum |
| g) Output Wavelength | 440 to 460 nm |
| h) Output Intensity | Greater than 1000 mw/cm ² |
| i) Thermal Safety | Handpiece thermostat protection. Unit will shut off for a brief time and four beeps will be heard. |
| j) Fuse | Internal to handpiece. Automatic reset. |
| k) Shutoff | Automatic shutoff at the end of timed cycle or by pressing either button |

4. SAFETY PRECAUTIONS

CAUTION: The light is provided in a non-sterile condition and must be disinfected prior to patient contact. and use a protective curing sleeve for each patient use.

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 gingival 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 INTO 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 should be changed after each patient.

5. INSTALLATION

The **CURE 24** is designed to be installed into the dental unit. Plug the power supply into wall outlet (110v or 220v models available).

6a. **MOUNTING** — remove paper adhesive on the plastic wall mount supplied and place on any flat surface.

6. **OPERATION** — To preset the timer- press and hold both buttons down. The digital timer will scroll down by 20, 15, 10, and 5 seconds.

To start light – press top or bottom button and led light will turn on.

To stop timer – press the button at any time.

To get low setting output of 700- press the button twice very fast and the small indicator next to display light will light up green .

Beeper- the beeper will sound after the blue led light turns off.

7. CURE TIMES

A3 shades and lighter typically take 8-10 seconds to cure. Darker shades and flowables take more time. It is recommended that dentists run their own tests to confirm the full depth of the cure.

8. 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 with the time since The **CURE 24** lifetime is extremely long. If the reading drops off, check to see if the lens is clear. If not, clean or replace lens.

Please check cure manufacture of composite instructions for proper wave length. Most composites cure at 440-490nm.

9. CLEANING / DISINFECTING

DO NOT IMMERSER IN LIQUID OR AUTOCLAVE UNIT. Thoroughly wipe off handpiece with cleaning solution or soap and water. Disinfect by thoroughly wiping down with alcohol, phenolic or gluteraldehydyde disinfectants per the disinfectant manufacturer's instructions. Disposable curing sleeves are recommended for each use.

10. LIABILITY

Spring Health considers itself responsible for the safety and performance of the product only if the installation and 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. One year Warranty card enclosed in light box.

11. WARRANTY

The TC-24A comes with 12 month warranty for parts and labor from date of purchase.

To register for warranty – email customercare@springhealthproducts.com

Include all contact information and phone and email address. Also include serial number and invoice.