

# LC SUPPORT®

A light-cure restorative for use in the build-up of teeth lacking sufficient coronal structure prior to the placement of crowns or bridges.

Catalog No. 51-302 CB, Contents: 25 x .35g Unidose Carpules, Instructions

## GENERAL INFORMATION

The use of core build-up materials in dentistry for replacing missing coronal structure is widespread, and the demand for these types of materials is rising with the increase of the median age of the population.

Until recently, materials used for core build-up were virtually the same as filling restoratives. Often, dentists used conventional filling restoratives in lieu of specialized core materials. Currently, composite (resin-based) materials are the most frequently used core restoratives. They offer the advantages of excellent mechanical strength and ease of handling over alternative materials.

Composite materials are available in either self- or light-cure versions, each offering specific advantages but also imposing some limitations. Self-cure materials provide unlimited depth of cure. Light-cure materials offer convenience of handling and virtually unlimited working time. Also, they are less sensitive to storage conditions. They do not require refrigeration and have a much longer shelf-life than their self-cure counterparts.

**LC Support®** combines the advantages of both prior art self- and light-cure systems to a large extent. In addition, it offers the most convenient dispensing system and handling characteristics. As it is a light-cure system, it offers the simplicity of the one component restorative and convenience of working without time pressure, while its exceptional depth of cure eliminates the main disadvantage associated with prior generation light-cured core materials.

**LC Support®** differs significantly from conventional restoratives as it has been optimized to meet specific requirements and provide features most desirable for core build-up materials. This includes, in addition to high mechanical strength and exceptional depth of cure, well balanced x-ray opacity and optimized consistency for the type of application.

## OUTSTANDING FEATURES

- Well-balanced x-ray opacity permits easy distinguishability from tooth structure as well as pins and posts.
- Easy handling; convenient dispensing system.
- Virtually unlimited working time.
- Moldable, non-sticky, yet adhesive consistency.
- The restorative cures with light induced curing mechanism to depth in excess of 10mm.
- Outstanding depth of cure.
- Ease of carving and contouring.
- Substantial chair-time savings.

LC Support® Properties	
Depth of Cure	10mm
% Filler	84 %
Compressive Strength	32,260 psi
Flexural Strength	125 psi

## INSTRUCTIONS FOR USE

1. Insert the carpule into the dispensing gun and remove tip.
2. After preparing the abutment, dispense material into crevices and around abutment by gently squeezing the handle of the gun. The consistency of the material facilitates shaping of the core, usually without the help of additional instruments such as spatulas, bands, etc.
3. Cure with a dental curing light operating in the visible wavelength range by slowly moving the tip of light around and above the restoration. Curing time should be 40-60 seconds depending on the intensity of the light and the size of the core.
4. Final shaping of the core should be done using conventional instruments for contouring and finishing composite restoratives.

### Helpful Hints:

- The abutment should be dried thoroughly prior to placement of the restorative.
- Priming of dentin and enamel prior to placement of core material is optional, though it may be desirable in certain clinical situations.

## GENERAL APPLICATION TECHNIQUES

**LC Support**® may be used with or without pins and posts. The restorative may be applied directly onto the prepared tooth or by using transparent crown forms. In the majority of restorations, the restorative may be applied in one step. Cure may be accomplished with any dental curing light operating in the visible wavelength range. Depending on the desired depth of cure and light intensity, the necessary curing time may vary from 20-60 seconds. The tip of the light should be placed as close to the restoration as possible and moved slowly around its periphery and over its top. After the material is cured, it may be trimmed and shaped in the same manner as composite restoratives.

## SPECIAL PROVISIONS

When making core build-up restorations on vital teeth, especially in situations involving proximity of the pulp, the use of **FluoroSeal**® Light-Cured Cavity Liner is recommended. A thin layer of FluoroSeal® should be applied over exposed dentin and cured by light for 20 seconds, followed by the application of **LC Support**®. The use of **FluoroSeal**® is also recommended over decalcified, decay-prone dentin in order to provide an additional measure of protection against secondary decays. On vital teeth a conventional calcium hydroxide type base should be applied in cases involving direct pulp exposure.

## STORAGE AND SHELF LIFE

Store at temperatures not exceeding 75°F (24°C). When stored under such conditions, the material has a shelf-life of 2 years. When cold, the material has a stiffer consistency. For easier handling, remove from cool storage area at least 15 minutes prior to use.

Caution: Federal Law restricts this device to sale by or on the order of a dentist

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