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Light-cured resin for temporary crown, bridge, inlay & onlay

REKTEK LC is a new light-cured single-component sculptable composite resin for temporary inlays, onlays, crowns and bridges.

For use only by a dental professional in the recommended indications.

RECOMMENDED INDICATIONS
Fabrication of temporary crowns, bridges, inlays and onlays.

CONTRAINDICATIONS
This product may cause sensitivity in some people. If such any reactions are experienced, discontinue the use of the product and refer to a physician.

DIRECTIONS FOR USE
1. DIRECT METHOD (on the patient's mouth)
A. Temporary Crowns & Bridges

1. Transfer of putty stick to the storage case
Transfer the putty stick from the aluminum foil pack into the storage case provided in the Introductory Set.
Note:
1) When putty stick is transferred to the storage case or is dispensed, handle with care in order to prevent contamination.

2) If the storage case is used repeatedly, fine abrasion fragments may be produced from the surface of the structure of the case. When paste is replaced, make sure that the inside of the case is clean. If it is dirty, clean with cotton moistened with alcohol.

2. Dispense the required amount of material using the spatula. Adjust the shape of pattern by gloved fingers to allow easy placement into the abutment. To soften the material, lightly knead several times with the fingers.
Note:
1) Do not warm up before use. The material will become sticky, making it much more difficult to handle.
2) Do not knead excessively, or the material will become sticky.
3) After dispensing, immediately close the storage case to protect the material from light.

3. Preparation for pressing material into the abutment.
Make preparations in such a way as to ensure that the mass of material fits into the space between the abutment and the adjacent tooth. It is effective to shape the material in advance so that it goes into the space easily (Picture A-3), or to push another paste in the space before the crown is pressed onto the abutment (Picture A-3).

Note:
If any undercuts are present on the abutment, block up with wax before placing material.

4. Pressing material into the abutment
Press the material into the abutment and roughly contour with the fingers or spatula.
Note:
Apply GC COCOA BUTTER or Vaseline to the fingers or spatula to help shape the material more easily and to keep the surfaces glossier. For additional application of material, temporarily light cure and remove the coated surface using a laboratory carbide bur, etc.

5. Shaping material - Step 1
Let the patient bite softly to register the occlusal surface and adjust occlusion. Also adjust and contour the margin of the buccal surface.

6. Shaping material - Step 2
Adjust the margin again as necessary, and contour the proximal and lingual surfaces. Using an appropriate instrument, remove any excess material, particularly from interproximal spaces.
Note:
1) If shaping the material takes a long time, it may become sticky. In this case, apply GC COCOA BUTTER or Vaseline to the fingers or instrument. In cases where additional application of material is needed, temporarily light cure and remove the coated surface using a laboratory carbide bur.
2) Any material remaining after shaping should be returned for storage because it has been exposed to ambient light. Dispose of it according to normal practice.

7. Temporary light curing
Temporarily light cure the restoration in the patient's mouth in order to prevent possible deformation during removal from the mouth. Light cure for 10 seconds with Halogen LED or 3-5 seconds with a plasma arc.

Note:
1) Make sure that no excess material remains in interproximal spaces before light curing. Any material remaining will make it difficult to remove the temporary restoration after it has been removed from the mouth.
2) Remove and trim the light curing unit cured restoration perpendicular to the abutment.

8. Final light curing
Perform final polymerization outside the patient's mouth. Light cure each of the buccal, proximal, occlusal and lingual surfaces for 20 seconds with Halogen LED or 3-5 seconds with a plasma arc. When using a table-top fluorescent curing unit (GC LABLIGHT LV-II or equivalent), light cure for at least 3 minutes.
Note:
1) When using a hand held type of light curing unit, be sure to light cure the interface of the restoration with the crown or onlay.
2) When using a hand held type of light curing unit, the range of effective polymerization depends on the cross sectional area of the light guide. If the resin restoration is larger than that, light cure in sections for effective polymerization.
3) Too short an irradiation time will result in incomplete hardening and possible discoloration.

9. Irradiation time and Depth of cure

	1mm	2mm	3mm	4mm
Halogen / LED	-	-	10 sec.	30 sec.
Plasma Arc	-	-	3 sec.	5 sec.
GC LABLIGHT LV-II	30 sec.	1 min.	3 min.	15 min.

Note: 20 sec. with Halogen light - 3.5mm

10. Correction of contour, finishing and polishing
Correct the temporary restoration using a laboratory carbide bur or silicone point. For an external aesthetic result, use a self-curing resin (GC UNIFAST TRD, ALIKE), a light-cured resin (GC UNIFAST LC) or a flowable composite according to its instructions for use. Polish with a felt or chamfer wheel to provide a glossy and beautiful appearance.
Note:
1) It is recommended to use a laboratory carbide bur to grind the hardened restoration. When using a fine diamond bur such as GC SMOOTH CUT, or a steel bur, first remove the unpolymerized layer with a laboratory carbide bur or alcohol to prevent the diamond particles from being embedded in the surface. Before GC UNIFAST TRD, ALIKE or GC UNIFAST LC is additionally applied, be properly sealed.

11. Completion
Cement the completed temporary restoration using GC FREEGENOL TEMPORARY PACK or equivalent temporary cement.

12. Repair
If needed, the cemented temporary restoration can be repaired in the patient's mouth using REVOTEK LC or a self-curing resin (GC UNIFAST TRD, ALIKE), a light-cured resin (GC UNIFAST LC) or a flowable composite according to its instructions for use.

13. Removal
A. Remove a layer of the surface to be repaired using a laboratory carbide bur. For optimal results, apply a resin bonding agent (GC RELINE HARD BONDING AGENT) to the area and dry with an air syringe.
B. Place material over the area, shape, cure and polish.

B. Temporary Inlays & Onlays

1. Transfer of putty stick to the storage case
Follow instructions as described under A1 above.

2. Dispensing material
Follow instructions as described under A2 above.

3. Preparation for applying material into the inlay cavity
Block out the crown form and press it into the abutment. Then, apply GC COCOA BUTTER or Vaseline to all surfaces of the preparation, including the V-LC glass ionomers base if used.

Press the material into the cavity and roughly contour with the fingers or spatula.
Note:
Apply GC COCOA BUTTER or Vaseline to the fingers or spatula to help shape the material more easily and to keep the surfaces glossier. For additional application of material, temporarily light cure and remove the coated surface using a laboratory carbide bur, etc.

5. Shaping material - Step 1
Let the patient bite softly to register the occlusal surface and adjust occlusion.

6. Shaping material - Step 2
Adjust the margin as necessary. Using an appropriate instrument, remove any excess material.
Note:
1) If shaping the material takes a long time, it may become sticky. In this case, apply GC COCOA BUTTER or Vaseline to the fingers or instrument. In cases where additional application of material is needed, temporarily light cure and remove the coated surface using a laboratory carbide bur.
2) Any material remaining after shaping should be returned for storage because it has been exposed to ambient light. Dispose of it according to normal practice.

7. Temporary light curing
Temporarily light cure the restoration in the patient's mouth in order to prevent possible deformation during removal from the mouth. For curing time recommendations and notes see above under A9.

8. Final light curing
Perform final polymerization outside the patient's mouth. For curing time recommendations and notes see above under A9.

9. Correction of contour, finishing and polishing
For instructions and notes see above under A9.

10. Completion
Cement the completed temporary restoration using GC FREEGENOL TEMPORARY PACK or equivalent temporary cement.

11. Repair
For instructions see above under A11.

12. Removal
Cut the inlay with an appropriate bur.

II. INDIRECT METHOD (on the stone model)

1. When a REVOTEK LC restoration is made on the stone model, apply a small amount of GC COCOA BUTTER or Vaseline to the area which will come in contact with the product.

2. Follow instructions described in I.DIRECT METHOD.

III. COMBINED USE WITH READY-MADE PLASTIC AESTHETIC TEMPORARY CROWNS

1. When a plastic full temporary crown is used

a. Apply a resin bonding agent (GC RELINE HARD BONDING AGENT) to the internal surface of the plastic full temporary crown.
Note:
More stable adhesion can be obtained by roughening the internal surface of the full temporary crown with a paper cone shaped point or other instrument before application of the resin bonding agent.

b. Fill the temporary crown with the plastic and press it into the abutment.

c. Apply light to the outside of the crown for temporary polymerization as described in I.DIRECT METHOD, A7 Temporary light curing.

d. After removing the crown from the patient's mouth, follow instructions described in I.DIRECT METHOD, A9 concerning final light curing, correction of contour, finishing, polishing and completion.

2. When a plastic veneike partial temporary crown is used
a. Apply a resin bonding agent (GC RELINE HARD BONDING AGENT) to the internal surface of the plastic veneike partial temporary crown.
Note:
More stable adhesion can be obtained by roughening the internal surface of the partial temporary crown with a paper cone shaped point or other instrument before application of resin bonding agent.

b. Press REVOTEK LC into the abutment. Then, press the partial temporary crown over the material, shape it and for temporary polymerization apply light to the buccal and lingual surfaces in that order as described in I.DIRECT METHOD, A7 Temporary light curing.

c. After removing the crown from the patient's mouth, follow instructions described in I.DIRECT METHOD, A9 concerning final light curing, correction of contour, finishing, polishing and completion.

IV. COMBINED USE WITH READY-MADE TRANSPARENT PLASTIC STRIP CROWN FORMS

1. Adjust the cervical area of the plastic strip crown using crown scissors and bur, and make an escape hole in the occlusal or buccal surface. Trim fit in the patient's mouth.

2. Lightly knead REVOTEK LC several times. Fill the strip crown form with material and press it into the crown form. Remove excess material.

3. For temporary polymerization, apply light to all surfaces of the crown form as described in I.DIRECT METHOD, A7 Temporary curing.

4. After removing the crown form from the patient's mouth, perform final polymerization apply light to each surface as described in I.DIRECT METHOD, A8 Final light curing. Remove the crown form using a sharp instrument, and trim and finish the temporary restoration. Seat in the patient's mouth using the temporary cement.

STORAGE
Store in a cool and dark place away from high temperature and direct sunlight or excess ambient light.
(Shelf life: 2 years from date of manufacture)

SHADE
B2 (based on Vita® shades)

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PACKAGE
1. Introductory Set
2. Pack of putty stick 16g, storage case (1), plastic spatula No. 2 (1)
2. Refill
3 packs of putty stick 16g

CAUTION
1. In case of contact with eyes, flush immediately with water and refer to a physician.
2. Do not use or store near fire.
3. Take care not to swallow the paste.
4. Do not mix with other materials.
5. When using a light curing unit, wear eye protection glasses. Do not look directly into the light.

Last revised : 09/2009

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PRINTED IN JAPAN

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