User Instruction

• Preparation before use

1. Check the packaging and contents of the product. Inspect and look for any foreign substance prior to the use.
2. Please read the instruction manual thoroughly.

• How to use

1. Orthodontic treatment retainer (U.P. Fiber Splint PLUS 1mm)

① Prepare the tooth surface using the conventional bonding technique.
② Apply a layer of flowable composite resin on the tooth surface that is treated for bonding.
③ Apply the splint material as thin and close as possible to the surface. Application is similar to the application of orthodontic brackets.
④ Use an instrument such as a cord packer to insert the splint into the proximalsurfaces. Pack the remaining splint the same way throughout proximal surfaces. Apply composite resin to hold the splint securely and cover.
⑤ Check the splint materials are placed appropriately into the proximal area, remove the excess composite resin. Apply resin curing light to cure.
⑥ Apply a thin layer of flowable resin over the cured composite resin and splint. Further photopolymerize using curing light. (Curing time is depended on the performance of the curing light, normally 10-20 seconds is sufficient.)

2. Use for stabilizing mobile teeth (U.P. Fiber Splint PLUS 2mm)

① - Options
To prevent detachment of splint and maintain longterm attachment, create a channel on the lingual surface of the tooth similar to the picture.

An alternative method of achieving longterm stability of splint is, forming a small depressions and fixing the splint at both ends. Apply splint on the lingual surface of the tooth as shown in the figure.

② - Options
Use the metal foil the same method as splint placement. Place the metal foil deep into the surface and between the teeth to measure the length required. Measure its length and prepare the splint at equal length.

③ For the bonding process, clean and prepare the lingual and proximal surface of the tooth using diamond burs and final strip. Bonding is performed according to the usage of the resin bonding technique.
④ Apply a small amount of resin on the labial surface of the tooth. This helps to fix and prevent tooth rotation and detachment of the splint. Avoid applying any external forces around the lingual surface during curing.
⑤ Apply a thin layer of medium viscosity resin on the tooth surface where the splint will be placed. Do not cure the resin yet.
⑥ Place the moistened splint (unfilled bonding agent) on top of the uncured resin. When mounting the splint, stick it thinly on the tooth surface as if you were mounting an orthodontic bracket.
Use your finger or an instrument to hold splint preventing the splint from displacement. [Figure 1,2]
Use a cord packer to insert the splint deep into the proximal space.
Do not cure at this time. [Figure 3.4]

Figure 1 Figure 2 Figure 3 Figure 4

(If a lingual channel is formed, apply the resin and place the splint and press down to make a splint to be flush with the tooth surface.)

⑦ Removing excess resin prior to curing. Apply UV light curing of 10 to 20 secondsper tooth.
⑧ Apply flowable resin on the cured splint. Achieve a smooth finish as possible. The flowable resin may have clumps. To void clumping of flowable resin, applying a thin multilayer is recommended.
⑨ Check occlusion, remove excess resin, and polish and finish.

3. Anterior bridge (U.P Fiber Splint Plus 3mm)
First splint

① Prepare adjacent teeth to the extracted tooth with etching, bonding and composite resin.
② Use the metal foil (included) to measure then cut the splint to the ideal size.
③ Place moistened splint (splint #1) on both prepared adjacent teeth and cover with composite resin.
④ Use curing light to photopolymerize. [Figures 1 and 2]

Figure 1

Figure 2

Second splint

⑤ Cut another moistened splint (splint #2) by the length of the tooth extracted or acrylic resin.
⑥ Add and adhere to the newly prepared splint #2 to splint #1 using composite resin.
⑦ After removing the excessive resin, use curing light to completely photopolymerize as [Figure 3]
⑧ Check the size and trim the extracted tooth or acrylic resin tooth to fit between the space. Create a mechanical retention slot/groove and apply a thin layer of composite resin on the groove. [Figure 4]

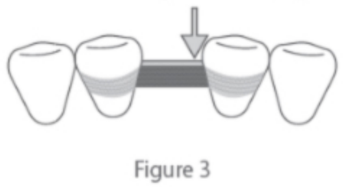

Figure 3

Figure 4

⑨ Apply composite resin on the fixed splint (splint #1) Attach ⑧ on the splint and cure by photopolymerization for 20 seconds. [Figure 5]

Figure 5

⑩ Apply flowable resin to cover and cure using a curing light to photopolymerize

4. Temporary crown for dental implant site (U.P. Fiber Splint PLUS 4mm)

① Measure new splint fiber (moistened with unfilled bonding agent) to adjacent tooth and trim.
② Apply conventional preparation technique for bonding (etch, prepare and apply bond) site on adjacent teeth.
③ Apply a thin layer of flowable composite resin on prepared adjacent teeth and cure.
④ Place the prepared splint fiber on the adjacent teeth and apply composite resin over the splint fiber and cure.
⑤ Apply a thin amount of flowable resin on the cured splint fiber with composite and cure further.
Note: The photopolymerization time is depended on the strength of the light cure and on average, it takes 10-20 seconds of curing.

- **Precautions for use**

1. General precautions

① Use by dentist only
② Read the instruction manual thoroughly and learn how to use it.

2. Application precautions

① Apply within 2 minutes once the product is taken out of the case
② plint the material should not be exposed and to prevent exposure of the splint, apply light polish only on the cured flowable resin using a polishing cup

3. After use precautions

① Do not reuse leftover cured products.
② The remaining product (uncured) can only be used only if it is exposed to the atmosphere for less than 1 minute and stored at dar, dry, room temperature3.
③ Do not use contaminated products and do not use it if contaminated.

4. Storage and management after use

① Do not reuse contaminated splint.
② Avoid contaminating unused splint.
③ Once the splint has been cut, the unused splint can be reused if exposed in a light of less than 1 minute. Placed leftover splint back in the black case and store at dry room temperature for up to expired date.

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