

Technique: Instrumentation should produce a smoothly tapered canal space greater than the taper of the gutta percha point to be placed (Figs. 1 & 2). Only by the canal space having a greater taper than the gutta percha cone can we be sure that the point will bind apically.

The minimum requirements for using the EZ-Fill bi-directional spiral are:

- A. The canal should be opened to at least a #35 file or reamer.
- B. The length of the canal must be known.
- C. **Always** run the Contra Angle in the **forward direction (clockwise)**.

Before Instrumentation After Tapered Instrumentation

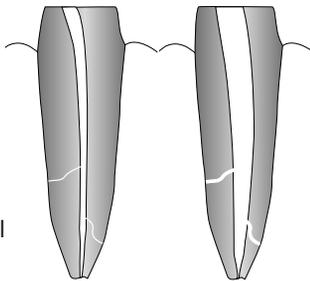


Fig 1

Fig 2

- D. Use the bi-directional spiral 3mm short of length, adjusting the rubber stop accordingly.
- E. Under normal usage the bi-directional spiral should be used for no more than 10 times before replacement.

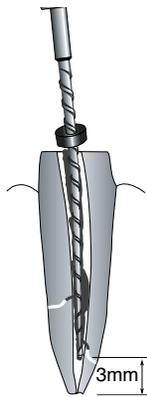


Fig 3

1. Use an irrigation solution such as sodium hypochlorite (NaOCl) to irrigate the canal(s) and dry with paper points.

2. Fit a single gutta percha point making sure it binds apically.

EZ-Fill

bi-directional spiral & epoxy root canal cement

Instruction Sheet

U.S. Patent No. 5,632,620 & 5,803,732
European Patent No. EP 0 806 916 B1. Other patents pending.
Made in USA

89 Leaning St., Hackensack, NJ USA
ESSENTIAL DENTAL SYSTEMS

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

3. Place 2 level scoops of cement powder on a glass slab. Add gel in about a 3:2 gel-to-powder ratio (Fig. 4).

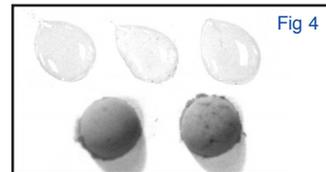


Fig 4

Add enough gel so the final mix looks like sour cream, or yogurt, in consistency. Make sure you see no granularity in the mix. If you do, add some more gel.

4 Apply the equivalent of lukewarm heat to the mix, by slightly warming a spatula in a flame for a second or two and then spatulating the mix. You will notice that the mix now has more flow (Fig 5). You do not want too much heat because it would then flow like water which is way too thin.



Fig 5

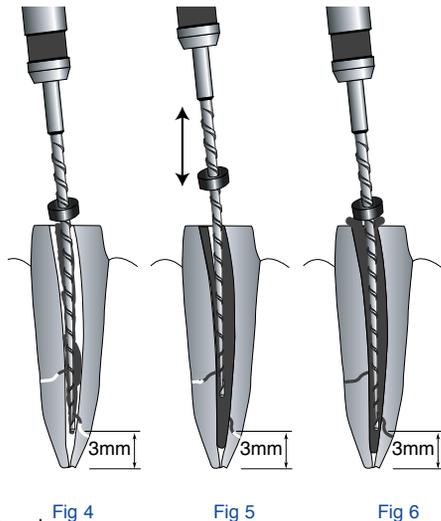


Fig 6

5. After applying the heat, create a peak of cement and apply to the bi-directional spiral by dipping the applicator into the peaked cement along the long axis of the peak. The cement should be applied liberally to the applicator as depicted in figure 6.

Continued on reverse

6. Apply the cement to the canal with the applicator going 3 mm short of the apex. 6-7 strokes are usually appropriate. Repeat this application in the same canal. Once the EZ-Fill bi-directional spiral is in the canal let it run at approx. 1500 RPM. Use a slow up & down and circular motion for approximately 5 seconds. The EZ-Fill bi-directional



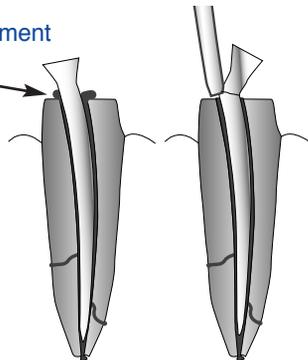
spiral will force the cement laterally the entire length of the root, thoroughly coating the walls and filling any open lateral canals that may exist (Figs. 4-6).

7. Apply the cement to the prefitted gutta percha point in the same fashion as the bi-directional spiral (Fig 7).

8. If you applied the cement correctly you should see excess cement escape coronally when you place the well-coated gutta percha point (EDS Cat. No. 5000-M) into the canal (Fig. 8). Cement will set between 24-48 hours in the mouth (at 37°C).



Excess cement expressed coronally



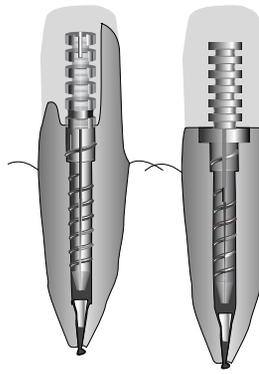
9. Sear off the end of the gutta percha point with a heated plugger (Fig. 9).

10. If a post-hole is desired immediately, use a #3 peeso reamer to remove the gutta percha:

Sear off the excess gutta percha. Flatten the coronally softened gutta percha at the level of the orifice and then place the tip of the #3 peeso in the center of the flat surface of the gutta percha. Let the peeso rotate with apical force limited to the weight of your hand. After about 3 seconds the peeso will start sinking into the gutta percha about 3-4mm. At this point, you can make the depth of the post-hole to the desired length without pulling out the gutta percha.

11. Seal the canal as you deem best.

13. If a post is required, it is recommended that an Essential Dental Systems post be used for their maximum retention, stability and long term clinical success.



For optimum instrumentation Essential Dental Systems recommends the use of the SafeSiders Instrumentation system. (EDS Intro Kit Cat. No. 5021-00 or 5025-00).

EZ-Fill Introductory Kits :

Stainless Steel (Cat. No. 1600-00) & Nickel Titanium (Cat. No. 1605-00).

Each introductory kit contains:

4 - Color coded to ISO Size 25 EZ-Fill bi-directional spirals (1- 21mm length & 3- 25mm length), 7.5gm - Epoxy root canal cement gel, 8.0gm - Powder, 1- Measuring scoop

EZ-Fill Refill Kits:

Stainless Steel (Blue Stop):

1600-01 4-Bi-Directional Spirals (1-21mm length & 3-25mm length)

1600-21 4-Bi-Directional Spirals (21mm length)

1600-25 4-Bi-Directional Spirals (25mm length)

Nickel Titanium (Red Stop):

1605-01 4-Bi-Directional Spirals (1-21mm length & 3-25mm length)

1605-21 4-Bi-Directional Spirals (21mm length)

1605-25 4-Bi-Directional Spirals (25mm length)

Cement Refills:

1608-00 EZ-Fill Epoxy Root Canal Cement
(7.5 gm Root Canal Epoxy Cement Gel, 8.0 gm Powder, Measuring Scoop)

1610-00 EZ-Fill Epoxy Root Canal Cement Gel Refill
(7.5 gm Root Canal Epoxy Cement Gel (Only))

Note:

Under certain temperature and moisture conditions, EZ-Fill Epoxy Resin Root Canal Gel may thicken. To thin the gel to your desired level, heat the tube slightly (with the cap on) with a hair dryer or warm tap water for approximately 30 seconds. Let the tube cool to room temperature and use as normal.



WARNING: This product can expose you to the chemical Bisphenol A, which is known to the State of California to cause reproductive harm. For more information go to www.P65Warnings.ca.gov.

For the latest information, instructions, video, and patented product developments please visit: www.edsdental.com.



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89 Leuning Street, S. Hackensack, NJ 07606, U.S.A.

