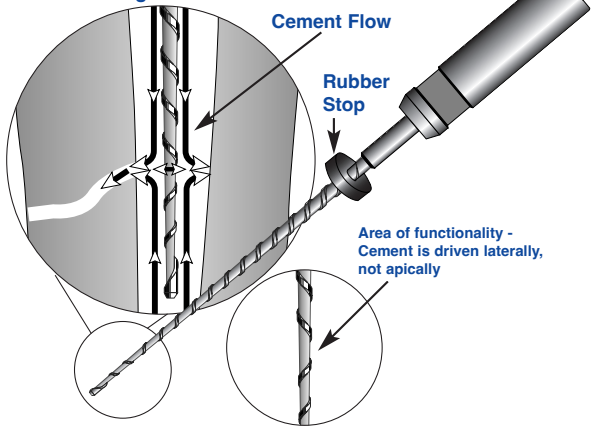


# EZ-Fill<sup>®</sup> XPRESS

## bi-directional spiral & epoxy root canal cement

Patented Design:



**1.** Instrument the canal to an apical size of 30-35 or larger and produce a smoothly tapered canal space. Remove the smear layer with 17% EDTA (EDTA Plus, Cat. No. 770-16). EDS recommends the use of Endo-CHX (2% Chlorhexidine, Cat. No. 750-16) to cleanse the root canal.

**2.** Fit the master gutta percha point (We recommend the use of EDS' Medium Gutta Percha Points. Cat. No 5000-M for the SafeSider Technique) and verify that it goes to working length. It may be necessary to trim the apical portion in order to obtain the snug apical fit indicated by 'tug-back.' This process is depicted in figures 1, 2, and 3.

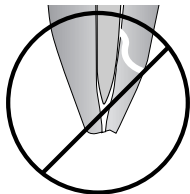


Fig 1

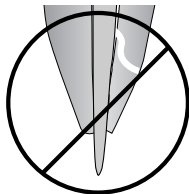


Fig 2

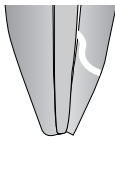


Fig 3

**3.** Place the bi-directional spiral in a low-speed handpiece set to run at approximately 1,000 RPM. **Ensure that the handpiece is running in the forward direction (clockwise).** Adjust the rubber stop to 3mm short of the working length. When using the bi-directional spiral, ensure that the rubber stop does not hit the tooth, shift position, and become an inaccurate guide. (To avoid the rubber stop shifting use SafeSider Endo Stops Cat. No. 5000-06).

**4.** Remove the cap on the EZ-Fill Xpress syringe and attach the mixing tip as depicted in Figures 4, 5, and 6. Depress the plunger to express material onto the mixing pad. **Discard the first few drops of sealer as they may be improperly mixed.**

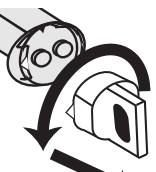


Fig 4

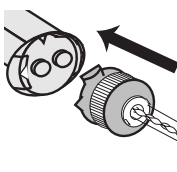


Fig 5

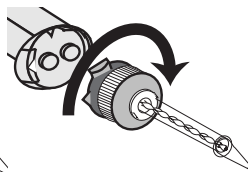


Fig 6

**5.** Dry the canal with paper points.

**6.** Coat the bi-directional spiral with thick layer of cement (Fig 7) and place into the canal. Run the spiral at 1,000 RPM for approximately 5 seconds using a slow, circular up and down motion of at least 7-8 stokes depicted in figures 8, 9, and 10. **Use the bi-directional spiral 3mm short of length. If the canal is severely curved, only take the bi-directional spiral to the point of curvature.** The bi-directional spiral will force the cement laterally coating the walls and filling any accessory canals.

**Note: If a you wish to thin EZ-Fill you may heat it with a warm (not hot) metal spatula.**

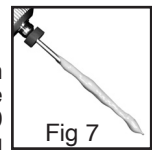


Fig 7

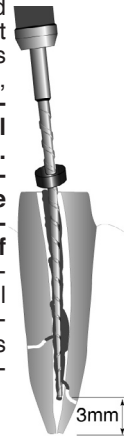


Fig 8



Fig 9

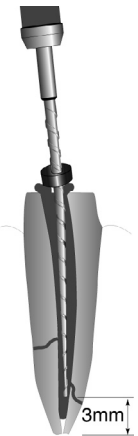


Fig 10

**7.** Repeat step 5 once more (twice for exceptionally large canals). Excess cement will exit coronally, but very little cement will go beyond the apex.

Excess cement expressed coronally

**8.** Coat the apical 10-12 mms of the prefitted gutta percha point liberally with cement and insert point into the canal. Excess coronal gutta percha can be removed by searing with a hot plugger as depicted in figures 11-12. The cement will harden in 2 to 3 hours.

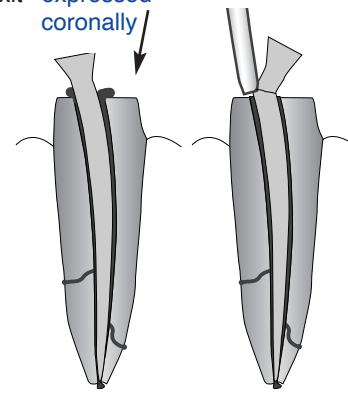


Fig 11

Fig 12

**9.** If the restoration will not be completed during the same visit, create a proper temporary coronal seal.

**10.** If a post-hole is desired immediately, use a #3 peeso reamer to remove the gutta percha to the depth desired. For maximum post retention and stability it is recommended that either Flexi-Post or Flexi-Flange (Essential Dental Systems) be used.

**Note: If a you wish to thin EZ-Fill you may heat it with a warm (not hot) metal spatula.**

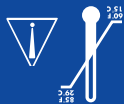
**If material is hard to express, you may run the syringe under warm water.**

Contraindications: Individuals with allergies to epoxy resins, or any other component of the root canal filling material.

### Other Uses:

The EZ-Fill bi-directional spiral can also be used to direct various solution into the walls of the root exactly where they are most needed. These solutions include:

- EDTA solutions or RC Prep
- Calcium Hydroxide
- Sodium Hypochlorite
- Calcium Hydroxide
- Chlorhexidine



STORE BETWEEN 60°-85°F / 15°-

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

# EZ-Fill Xpress

## Endodontic Obturation System



ESSENTIAL  
DENTAL  
SYSTEMS

EDS

### Manufacturer's Notes:

1. The EZ-Fill bi-directional spiral is available in both stainless steel and nickel titanium.

2. It is essential to use the EZ-Fill epoxy root canal cement designed specifically for the bi-directional spiral. EZ-Fill epoxy cement has been especially formulated to be radiopaque and has the ideal viscosity.

3. Blue rubber stop identifies stainless steel bi-directional spiral. Red rubber stop identifies nickel titanium bi-directional spiral.

### Important Sterilization Procedures:

#### Bi-directional spirals are non-sterile.

Prior to use, bag materials in an autoclave safe pouch and sterilize with a gravity displacement autoclave for 15 minutes at 132°C with a minimum drying time of 30 minutes. When reprocessing instruments, remove debris and dry before sterilization. Remove debris/soil using the EDS recommended cleaning protocol. Disinfect using a thermal disinfectant unit (washer-disinfectant) at 90°C for 1 minute.

For complete instructions see website.

For more information and the latest instructions please visit  
**[www.edsdental.com](http://www.edsdental.com)**

For optimum obturation Essential Dental Systems recommends the use of the Endo-Express® / SafeSiders® Instrumentation system. (EDS Intro Kit Cat. No. 5600-21, 5600-25).

### EZ-Fill Xpress Introductory Kits:

Stainless Steel (Cat. No. 1620-00) & Nickel Titanium (Cat. No. 1625-00).

Each introductory kit contains:

4 - Color coded to ISO Size 25 EZ-Fill bi-directional spirals (1- 21mm length & 3- 25mm length), Two dual barrel syringes (9.5gm each), 20 mixing tips.

### EZ-Fill Xpress Refill Kit:

1628-00 EZ-Fill Xpress Epoxy Root Canal Cement

Two - Dual barrel syringe (9.5gm each), 20 mixing tips.

### EZ-Fill Bi-Directional Spiral Refill Kits:

Stainless Steel:

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:

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)



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](http://www.P65Warnings.ca.gov).



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89 Leuning Street  
S. Hackensack, NJ 07606  
Phone: 1-800-22-FLEXI • 201-487-9090  
Fax: 201-487-5120  
[www.edsdental.com](http://www.edsdental.com)