**Ultrapak® E™** Knitted Epinephrine Displacement Cord

**Description:**
Ultrapak® E™ cord is a specially knitted cord impregnated with racemic epinephrine hydrochloride 0.4 ± 0.2 mg per inch of cord. Thousands of tiny loops are knitted together in long interlocking chains, making the Ultrapak cord more compressible. The design of the Ultrapak cord enhances any tissue management technique.

**Indications:**
Ultrapak E™ is a retraction cord used for fixed prosthetic gingival retraction and hemostasis procedures; pack after preparation, leave five minutes, remove, and work. For direct restorative procedures: pack prior to bonding and/or restorative placement procedures.

**Procedure:**
1. Crown is prepared as usual.
2. Use a size of cord that appears too large, as the loops compress during packing.
3. Select a thin pick, such as one of Fischer's Ultrapak® Packers to place the cord. The interlocking loops prevent the instrument from penetrating the cord.
4. Pack cord into the sulcus to distend the tissue, limiting use to one quadrant of the mouth at a time. Normal tissue moisture activates the epinephrine. Ultrapak cord can passively stretch because of loop elongation. This reduces the tendency to dislodge already-placed cord behind the advancing packing instrument.
5. The loops mold and lock into surface irregularities subgingivally.
6. Following packing, the tiny loops maintain a gentle, continuous outward force against the gingival cuff (Fig. 1). Leave 3-8 minutes.
7. Remove cord and spray with firm air/water rinse. (Cord may be left longer when packing multiple units.)
8. Rinse, dry, and make impression.

**Precautions:**
1. Do not use on patients with cardiovascular disease, hyperthyroidism, hypertension, diabetes, arteriosclerosis, or on patients taking tricyclic anti-depressants or having sensitivity or hyper-sensitivity to epinephrine. These people, as well as elderly individuals, pregnant women, and children under 30kg (66 lbs) may be at greater risk of developing adverse reactions after epinephrine administration.
2. Do NOT use with ferric sulfate hemostatic—a temporary blue/black precipitate will occur.
3. Do not store in excessive heat (above 40°C or 104°F).
4. Products that contain di-epinephrine hydrochloride also contain sodium hydrosulfite, a sulfite that may cause allergic-type reactions (including anaphylactic symptoms and life-threatening or less severe asthma-like episodes in certain susceptible patients). Sulfite sensitivity is seen more frequently in asthmatic than nonasthmatic people.
5. Systemic reactions are intensified by inhalation anesthetics containing halogen or cyclopropane.
6. Limit amount of cord and number of preparations epinephrine cord is to be used on to a maximum of 2 inches per 30-minute intervals. Monitor blood pressure and pulse as needed.