

# MARKETPLACE

## Designed to deliver

**Tony Beale** looks at a comprehensive range of delivery tips that permit precise and effective placements of modern dental materials

The chemical composition of dental materials undergoes continual changes, with many products progressing through successive generational development phases. Some remain on the market for many years, whilst others fail to achieve manufacturing longevity, and disappear from use.

There are certain products that succeed in becoming regular favourites with dental professionals, and it is quite common to find that it is their ease of use that enables them to retain this popularity. Conversely, some products fail, simply because the users find them difficult to handle, to dispense and to place intraorally.

As there are now so many dental materials available, it is essential that they be packaged and presented in such a way that users can optimise the benefits of these products by utilising them via the most effective delivery methods.

### Effective delivery systems

Ultradent is a manufacturing company that produces quality dental materials, and for many years has continually developed effective delivery systems to suit its products. The complete range of its products is marketed and sold in the UK by Optident Ltd.

In this two-part article, Ultradent's range of delivery tips will be described, and they will be grouped in relation to specific procedures, together with the Ultradent products for which they were designed. It will be seen that they can be utilised with the many and varied cements, sealants, etching and bonding materials, composite resins, gels, irrigants, and liners that Ultradent currently produces.

### Tissue management procedures

This procedure can sometimes prove difficult for some operators, but through the introduction of products that provide immediate haemostasis, elimination of surface bleeding, and sulcular fluids, Ultradent has further enhanced the benefits of its tissue management products by developing specific delivery tips (Figures 1 and 2).

For restorative procedures – bonding and composites, please see Figures 3-13.

The second part of this article will appear in the next issue and will describe and illustrate the Ultradent delivery tips that have been designed for use in endodontic procedures. **ID**



**Figure 1:** Metal Dento-Infusor Tip – this tip allows precise placement of haemostatic agents, and will remove superficial coagulum. It enables a gentle pressure to be exerted onto sulcular areas, and is ideal for use with Ultradent's Astringedent and Viscostat products



**Figure 2:** Blue Mini Dento-Infusor Tip – this plastic tip can also be used in the same way as the metal Dento-Infusor tip, and allows controlled flow of 'drop-sized' quantities



**Figure 3:** Black Micro FX Tip (22 gauge / 0.70mm tip) – this tip is suitable for use with materials of varying viscosities. Its 'flocked' tip will fan out to permit spreading of thin and uniform layers of material. This tip works well with Ultradent Prepquick, Primadry and Permaseal



**Figure 4:** Black Mini Brush tip – works in a similar way to the Black Micro FX Tip, but its tight brush fibres will help to minimise the occurrence of bubbles. It can be used with Ultradent Permaflow DC and Permaquick Primers, Sable/Sable seek, Silane and Ultradent Universal Dentine Sealant



**Figure 5:** Black Mini Tip – its 1.00mm diameter tip can be used for dispensing larger volumes of materials. Being black in colour it preserves the flow of light-cured materials. Great to use with Ultradent LC Block Out Resin, Permaflow composites, and Opaldam



**Figure 6:** Black Micro Tip – a precision tip of 22 gauge (0.70mm diameter). Its narrow canula will deliver precise amounts in critical mouth areas. Ideal for use with Ultradent Ultra Etch Arrest, Opaldam Resin Barrier, and Ultradent Ultraseal XT plus Sealant



**Figure 7:** Blue Micro Tip – a plastic 25 gauge / 0.50mm diameter tip that can deliver materials accurately. Designed for use with Ultradent Ultra Etch and Primadry



**Figure 8:** Deliver-Eze Brush Tip – another tip intended for accurate material placement. Its metal cannula can be bent, allowing it to be used in post preparations as small as 0.6mm in diameter. Suited to use with Ultradent DC composite primers



**Figure 9:** Inspirial Brush Tip – a very useful brush tip that is specifically for use with viscous or filled materials via an internal helical channel and ridge. Its tight brush fibres will minimise bubble formation. Suggested uses are with Composite Wetting Resin, Peak Universal Bond, Permaquick, PQ 1, Ultradent Porcelain Etch, Ultra Etch and Ultraseal XT plus



**Figure 10:** Intraoral Tip – designed for greater accuracy of material placements, it can be attached to dual-barrel mixing tips. Works well with Ultradent Permaflo DC composite



**Figure 11:** Micro 20 gauge Tip – this tip has a large cannula for consistent flow, and is described as a standard composite delivery tip. Can be used with Permaflo flowable composite, and Opaldam barrier resin



**Figure 12:** White Mac Tip (2.0mm diameter tip) – an all plastic tip for delivery of larger volumes of material. It is acutely angulated to allow easier intraoral applications. Can be used with Oraseal Caulking agent, Oraseal putty, Consepsis Scrub and Opalustre chemical slurry



**Figure 13:** White Mini Laser Tip – a smaller white plastic tip of 1.07mm diameter that has less angulation, but can be used with the same materials as those shown for the White Mac Tip

DETAILS OF ALL the products mentioned can be obtained from Optident Ltd, International Development Centre, Valley Drive, Ilkley, LS29 8AL. Telephone 01943 605050 email: sales@optident.co.uk, web: www.optident.co.uk.



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