

Ronvig restorative products

Tony Beale presents part two of his article describing innovative dental products from this Danish manufacturer

In part one (August issue of Dentistry) Tony described the Ronvig range of anaesthetic syringes, and will now take a look at other products that will be of interest to those involved in restorative dentistry.

'Dento-prep' microblaster

Ronvig produce the 'Dento-prep' a very useful air abrasive unit that can be used to prepare the surfaces of direct and indirect porcelain, composite and metal restorations prior to bonding or cementation procedures. Careful preparation by the roughening of these areas is essential in ensuring optimal bond strength, and the 'Dento-prep' is suitable for use in both intra and extra oral situations. The removal of old cement material prior to re-cementation, and preparation of repairs can also be undertaken using this product.

The 'Dento-prep' is easy to install, uses either aluminium oxide or silicon oxide abrasive powders, (20-80 microns), and is driven by air that can be delivered by a compressed air line or via an air turbine connector. Air pressure of 2 - 5 bar, (30 - 105 psi), is required, and this should be free of any moisture, so a filter must be sited within the airline. Failure to provide this can result in ineffective performance and clogging of the nozzle.

The 'Dento-prep' has a perfectly balanced, 360-degree rotating nozzle to accommodate easy applications, and this can be set in a fixed position if desired. The powder reservoir can act as a useful handle in certain applications, and allows the unit to sit upright when not in use.

The 'Dento-prep' is manufactured from high-grade stainless steel and is autoclavable up to 135 degrees C (275 degrees F). It must never be immersed in water, and must be thoroughly dried after autoclaving. Ronvig offer a one-year guarantee on materials and construction, but this does not apply to the spray tips.

For those users who wish to make more extensive use of the 'Dento-prep', Ronvig produce a dust cabinet, specifically designed for indirect applications. The unit has a powerful working light and a filter protected electronic suction system that ensures a clear operational view, and helps to avoid any leakage of dust into the surrounding environment. Its construction is of powder-coated stainless steel, and incorporates a large tempered glass window.

Ronvig are proud to report that the 'Dento-prep' and the Dust Cabinet have been recipients of numerous Reality awards from 2002 to 2011.

'Compo-ject' composite gun

Another Ronvig product that will appeal to users of pre-filled composite tips, is the 'Compo-ject'. This compact, ergonomic device takes the form of a small gun that allows effective dispensing of universal pre-filled dose composite tips. These can be easily and quickly loaded into a 'clip lock' at the front of the applicator gun, with the tip being capable of rotation to any angle. The 'Compo-ject' requires no piston drawback, enabling effortless extrusion of medium to high viscosity composite materials to all intra oral areas, and after use, the tips can simply be bent downwards for quick release from the 'clip lock'. It is manufactured in high grade, acid resistant stainless steel, is fully autoclavable, carries a five year guarantee, and has also gained many Reality awards between 2003 and 2012.

'Ease-it' composite heater

Another practical product that will also appeal to many restorative practitioners is the Ronvig 'Ease-it' composite heater. This unit will soften composites, creating a smoother consistency with easier dispensing, shaping and adaptation, being particularly useful in layering applications. It can also help to reduce the risk of creating air pockets or voids within the restoration.

The unit consists of a thermo block base, a heating



Figure 1: The Ronvig 'Dento - Prep' hand held air abrasive unit



Figure 2: Ronvig's table top dust cabinet for use with the 'Dento - Prep'



Figure 3: The Ronvig 'Compoject' composite applicator gun



Figure 4: The Ronvig 'Ease-it' mixing tray and thermo block composite heater (part of the complete 'Ease-it' system)

jar or chamber, mixing dish and protective cap. These parts are all available separately to suit individual requirements, as operators who only use pre-filled composite tips may not require the heated chamber that is designed to take syringes. The heating is controlled electronically, and can be set at temperatures between 40 and 50 degrees C (104 - 122 degrees F). A built-in LED indicator light will show yellow, and on reaching the desired temperature (taking approximately five minutes), will then show green. The heating chamber will accommodate up to seven syringes, and the heated mixing dish can be detached from the thermo block, taken to the work area, where operators will have approximately 15 minutes within which to use the material before its working properties are reduced. A protective lid can be placed over the mixing dish to prevent any premature curing.

Ronvig have carried out extensive testing of composites in collaboration with the Department of Dental Materials at Copenhagen University and have found that repeated and prolonged heating of composites in the 'Ease-it' unit have shown no detrimental effects to the materials integrity, so users should not be concerned about re-heating of unused material. The 'Ease-it' is fully guaranteed for one year. The unit cannot be autoclaved, and should be wiped with a disinfected cloth.

'A-DAPT' composite instrument

Composite fans will also find the Ronvig 'A-DAPT' instrument to be of interest. It is designed to facilitate easy adaptation and shaping of composites and glass ionomer materials. It overcomes the problems associated with the sticking of composites to hand instrument tips, as it uses detachable flexible tips made from a non-stick silicone. The 'pencil-like' handle enables a tactile, yet secure and controlled grip whilst in use, and users have a choice of different handles (straight or 60 degree angled), and tips that are brush-shaped or round/conical



Figure 5: The two Ronvig 'A-dapt' composite instruments

to allow variable contouring of the composite. Ronvig advise that if any greasy layer is apparent on the tips after using, this can be wiped off with alcohol, restoring the tip for further use.

The Ronvig company have successfully addressed some of the very practical needs of the restorative dental practitioner, and through the quality manufacturing of these products will ensure that they deliver long and reliable service to the user.

All the Ronvig products mentioned in this article are available from Optident Ltd, International Development Centre, Valley Drive, ILKLEY, LS 29 8AL.
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