

# MARKETPLACE

# Inspiration for direct restorations

**Tony Beale** introduces a new and versatile composite material

Answering the question, 'which material is the ideal choice for direct anterior and posterior aesthetic restorations?' is problematic. There are many who still consider dental porcelain to be unequalled. However, recent developments in the production of dental composites have resulted in the appearance of materials that can claim to reproduce truly natural looking restorations that embody virtually all the characteristics of natural teeth, thus considerably reducing the need to consider overall crown coverage in porcelain.

This is particularly true of a new homogeneous nano-hybrid composite called Inspiro that is now available in the UK from Optident Ltd.

When checking its origins, it will be seen that it carries an exceptional pedigree, being the brainchild of the internationally recognised dental aesthetics specialist, Dr Didier Dietschi.

His belief in the continued development of dental composites as a valid alternative to porcelain can be seen in Inspiro, and offers much to the practitioner who wishes to fully exploit the many and varied applications of composites for both anterior and posterior direct restorations. It also supports Dr Dietschi's endorsement of minimally invasive dentistry, together with utilisation of a natural layering technique wherever this is possible, and in some instances to undertake 'no-prep' restorations.

## Minimally invasive treatments

One look at the beautifully produced Inspiro restoratives picture gallery brochure will inspire dental professionals to undertake minimally invasive treatment procedures such as the correction of congenital deficiencies, where colour and tooth form can easily be rectified, resulting in enhanced aesthetics. This can readily be observed in relatively simple treatments like diastema closures, or to improve post-orthodontic treatment appearances where



**Kit box:** A full kit of Inspiro composite with a two-layer shade guide

crown shape or gingival contours can be easily improved.

Current thinking now encourages minimally invasive dentistry, and Inspiro offers much scope to those practitioners who feel that extensive tooth structure removal is unnecessary, thus reducing the requirement to prescribe extensive ceramic restorations.

## Using the material

Inspiro enables practitioners to adopt a natural layering technique that can replicate natural tooth structures, together with predictable outcomes. Layering procedures need not be complex, as Inspiro embodies properties that allow logical colour matching with minimal thickness layering of composite material. Its natural fluorescence and opalescence also contributes much to the overall appearance of the finished restoration.

Most Inspiro restorations can be completed by using only two layers (dentine and enamel), and the two-part shade guide allows users to see just how these layers will appear when used in combination.

The ultra-fine fillers that are present in the composite matrix are separated and evenly distributed to impart excellent surface quality, together with flexural strength. It exhibits low shrinkage, good polishability, high gloss retention, and abrasion resistance with anti-bacterial properties that allow it to remain hygienic in the mouth.

Inspiro can also be ideal for those patients where functional considerations are paramount. Inspiro allows occlusal deficiencies to be corrected, with its high strength and long-term durability properties closely matching those of the natural tooth structures, thus allowing for minimal natural wear, but without the

possible antagonistic problems that can be associated with porcelain restorations.

Inspiro is also a suitable material for the correction of abfractions that can often be associated with occlusal problems, and for exceptionally aesthetic veneers.

## Product options

To accommodate all clinicians' requirements, Inspiro is available in both syringe delivery and pre-dosed capsule presentations to suit differing applications. Dentine and enamel shades are standard, with flowable versions also available together with effect shades.

Inspiro represents a significant advance in the provision of a versatile and user-friendly material that offers considerable scope in the production of aesthetically pleasing and fully functional direct restorations.

Optident can provide information on full kit selections or individual refills, together with details of Inspiro courses.

Dr Dietschi is appearing in the UK for a series of courses, lectures and seminars throughout 2014. For full details about when and where visit [www.edelweissdr.com](http://www.edelweissdr.com). **D**



**Figure 1:** A typical case before receiving an Inspiro make-over



**Figure 2:** The same case after the Inspiro make-over

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