

Latest-Generation Flowable Shows Excellent Performance

Beautiful Flow Plus X by SHOFU shines in clinical practice thanks to great material and handling properties.

Step-by-step case example of a successful cervical restoration

The occurrence of Class V cavities is increasing; the causes range from toothbrush abrasion to gingival recession due to periodontitis. Various types of patients, of virtually all ages, may suffer from exposed cervical areas. Unprotected root dentin is at risk of caries and also mechanical wear, for example, when unsuitable brushing techniques are used. Now Beautiful Flow Plus X, SHOFU's latest ion-releasing universal composite, offers dental professionals a particularly practical and time-saving solution for durable aesthetic restorations in the cervical area.

Dr Naotake Akimoto, DMD, PhD, Yokohama, Japan, who performed the cervical restoration shown in the following case example, especially appreciates the comprehensive approach used to develop this new flowable material, which includes an optimised delivery system.

Beautiful Flow Plus X is an injectable hybrid composite, which can be easily and precisely applied directly from the syringe. The material is self-levelling and does not stick to or ooze from the needle tip. It comes in two viscosities (F00 and F03). F00 flows when gently extruded and then stays put. F03 is moderately flowable, non-dripping and self-levelling; it is ideal for the treatment of wedge-shaped defects in the cervical area.



Difference in flow behaviour of both pastes when placed on a horizontal mixing slab for one minute.

Beautiful Flow Plus X has excellent physical properties. Moreover, its nano-S-PRG filler technology helps to remineralise the tooth structure adjacent to the restoration. The release of fluoride and other bioactive ions inhibits caries and plaque formation and buffers acids.

Precise delivery and application allow dentists to create thin transitions, which will not mechanically irritate the periodontium. Subsequent excess removal is reduced to a minimum.

Polishability to a high gloss also prevents plaque formation and microbial colonisation, protecting the adjacent gingiva from irritation. Beautiful Flow Plus X is compatible with all conventional bonding systems. Its natural appearance, based on a pronounced chameleon effect, ensures beautiful Class V restorations in the aesthetic zone.

The viscosity of the slightly flowable F03 paste has been optimised for easy, efficient and anatomical shaping in the cervical area; it neither drips nor slumps.

Clinical Case: Cervical Restoration, Dr Naotake Akimoto, Yokohama, Japan

Wedge-shaped defects in the upper left

lateral incisor, canine and first premolar are treated with Beautiful Flow Plus X F03. This photo documentation shows the direct restoration of the canine from the clinician's viewpoint.



Fig. 1 Preoperative situation: Wedge-shaped defects in teeth 22, 23 and 24. A retraction cord is inserted into the sulcus.



Fig. 2 The retraction cord (SU Pack Cord 000) has been placed. Gingival retraction is performed to avoid insufficient adhesion of the cervical restoration to the gingival cavity margin, or insufficient filling of the cavity.



Fig. 3 Application of the adhesive (BeautiBond Multi).



Fig. 4 Air-drying: When using a one-bottle adhesive, it is important to evaporate the solvent. The area is air-dried sufficiently while using the vacuum to avoid splashing the material into the patient's mouth.



Fig. 5 Light-curing: For proper polymerisation, the curing light is held as close to the cavity as possible. The curing time recommended by the adhesive manufacturer should be observed.



Fig. 6 Application of Beautiful Flow Plus X F03: The needle tip is held close to the enamel margin. The paste is applied only to the incisal cavity margin and should not be spread towards the cervical area.



Fig. 7 Taking advantage of its slight flowability under gravity, F03 is slowly moved cervically with a probe.



Fig. 8 The contour is adjusted with a probe. The paste should not touch the gingiva.



Fig. 9 Light-curing: The curing light is held as close to the material as possible, just as before, when polymerising the adhesive.



Fig. 10 The retraction cord is removed.



Fig. 11 Excess adhesive and composite is visible at the gingival margin.



Fig. 12 A superfine diamond instrument (SF-416) is used to remove excess material from the cervical area. Then the labial contour is adjusted.



Fig. 13 Immediately after the treatment of all three teeth: The cervical areas of teeth 22, 23 and 24 have been successfully restored. The slight flowability of F03 has made these restorations very easy.

Conclusion

Beautiful Flow Plus X by SHOFU is a great step forward in the remarkable evolution of flowable resin composites from auxiliary products to fully-fledged, universal restorative materials. This latest-generation Giomer offers a variety of benefits, ranging from efficient handling to high durability and bioactive effects. This is why internationally renowned clinicians like Dr Naotake Akimoto now use SHOFU's innovative flowables as the materials of choice in numerous cases.

First published in ZWP, 6/2019, Oemus Media AG, Leipzig/Germany. For further information, please contact Shofu on 01732 783 580 or sales@shofu.co.uk. ■

About the author
Dr Naotake Akimoto practises in Yokohama, Japan

