







### APPROVED FOR CAVITIES BEARING MASTICATORY LOADS

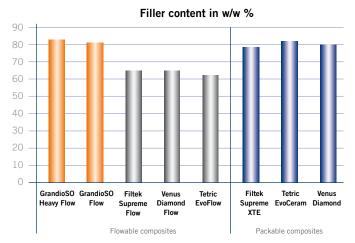
VOCO already has one tooth-like restorative composite, the packable GrandioSO, on the market. This is now joined by two flowable variants: the high-viscosity GrandioSO Heavy Flow, and the medium-viscosity GrandioSO Flow. Both materials are not only extremely easy to apply, as you would expect with a flowable composite, but also have the excellent physical properties that were hitherto available only in packable composites.

#### Top scores for physical performance

GrandioSO Heavy Flow and GrandioSO Flow are flowable restorative materials based on nanotechnology. As with the tooth-like GrandioSO, functionalised SiO<sub>2</sub> nanoparticles have been combined in these products with glass ceramic particles and a special resin matrix to give a filler content of over 80% by weight. Such a high filler content was hitherto available only in packable composites. Apart from the filler content, the

values of the physical properties of both flowable composites, such as Micro-Vickers hardness, modulus of elasticity and flexural strength, not only equal but even outperform those of many packable composites.

Thanks to this level of performance, both flowable composites from VOCO can be used without restriction for all classes of cavities, even those bearing masticatory loads.



Micro-Vickers hardness (MHV) 180 160 140 100 40 Filtek GrandioSO GrandioSO Filtek Venus Tetric Tetric Supreme Supren XTE Flow Flowable composites Packable composites

Source: information provided by the manufacturer / literature

Source: D. Behrend, University of Rostock, report to VOCO

Filtek Supreme Flow, Venus Diamond Flow, Tetric EvoFlow, Filtek Supreme XTE, Tetric EvoCeram and Venus Diamond are not registered trademarks of VOCO GmbH.

# Grandio®SO Heavy Flow and Grandio®SO Flow – Suitable for all classes of cavity

#### Indications

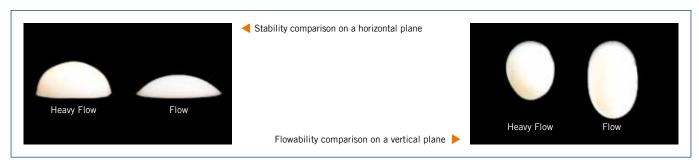
- Fillings of Class I V cavities
- Minimally invasive filling therapy
- Extended fissure sealing
- Blocking out undercuts
- Lining or coating cavities
- Repairing fillings and veneers

- Luting translucent prosthetic pieces
  (e.g., full ceramic crowns, etc.)
- Interlocking and splinting teeth
  (e. g., with glass fibre strands)
- Use as a base material in combination with glass fibres or similar products for fabricating semi-permanent crowns and bridges

# TWO VISCOSITIES FOR PERFECT RESTORATIONS

Depending on the actual indication or your own preference for a flowable composite with a specific stability or flowability, VOCO now offers you a choice of two viscosities. While GrandioSO Heavy Flow and GrandioSO Flow differ essentially only in their viscosity, they possess the same versatility and outstanding aesthetics.

#### The visible difference



### Grandio®SO Heavy Flow in use

According to dentists taking part in tests, GrandioSO Heavy Flow's high stability makes it particularly effective for undercut cavities, restorations close to the marginal border, and proximal defects. GrandioSO Heavy Flow can here be applied precisely and without overflow, thereby saving you time in ap-

plying the material. In addition, the  $^{\text{vc}}$ A5 shade now enables you to carry out aesthetic, fade-resistant cervical restorations even in older patients.

The stability of GrandioSO Heavy Flow also comes in extremely useful for processing glass fibre strips.



Typical V-shaped cervical defect on 13



Application of GrandioSO Heavy Flow after conditioning and bonding



Restoration immediately after polishing

Source: Dr. Walter Denner, Fulda



Splinting of the upper anterior region with GrandTEC glass fibre



Glass fibre embedded in GrandioSO Heavy Flow



Completed splinting

Source: Drs. Henk Alting, Groningen

## TWO VISCOSITIES FOR PERFECT RESTORATIONS

GrandioSO Heavy Flow and GrandioSO Flow are available in 13 shades of different opacities. These enable aesthetic restorations to be carried out which are visually indistinguishable from the surrounding tooth structure. Both materials are easy to polish and provide a long-lasting lustre. You also have the choice of applying the material from the non-dripping NDT-syringe or from the convenient Caps.

#### Grandio®SO Flow in use







The medium-viscosity GrandioSO Flow is rated in very positive terms by dentists carrying out tests, especially regarding its use in small Class I and III cavities, as a lining material and for luting of veneers. In such cases it is particularly the optimum flowability of GrandioSO Flow that pays for itself. Because of its flow-on-demand properties, GrandioSO Flow

is flowable under pressure and when in motion, but becomes stable again after application. Aesthetic restorations in the anterior and posterior regions are easily obtained using the shades available in the two convenient forms of application, the NDT-syringe and Caps with extra-long metal cannula.







Source: Dr. Marcelo Balsamo, São Paulo

## The special, white-opaque (WO)

GrandioSO Flow WO is extremely radiopaque. With a radiopacity of 500% Al it provides a very sharp contrast to the dental hard tissue and other restorative materials. The white-opaque shade also comes in extremely useful for a further physical treatment of a filling. For example, the white material clearly marks the proximity of the pulp when used as a cavity liner. GrandioSO Flow WO is also highly suitable for masking discoloured areas. The use of the shade WO for colour effects in the fabrication of highly aesthetic restorations rounds off its special range of applications.

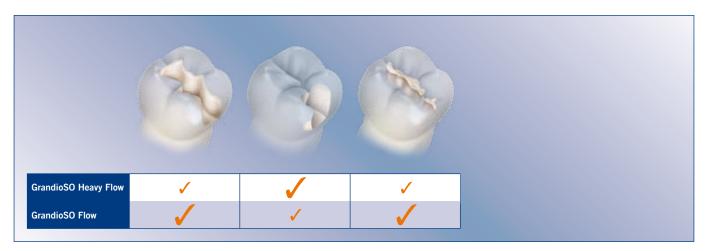


# TWO FLOWABLE COMPOSITES FOR ALL CLASSES OF CAVITY

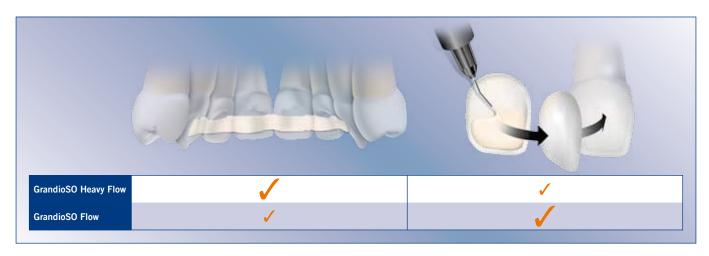
Fillings of Class I - V cavities



Lining, blocking out undercuts, minimally invasive filling therapy, extended fissure sealing



Interlocking and splinting teeth, luting translucent prosthetic pieces



## FLOWABLE UNIVERSAL NANO HYBRID RESTORATIVES

#### **Advantages**

- Universal can be used for all classes of cavity
- Physical properties superior to those of many packable materials – e.g. hardness, stability, resistance to abrasion
- Very high filler content of over 80% by weight
- Optimum flowability
- Safe and precise application thanks to NDT syringe or flow caps with bendable metal cannula
- Excellent surface affinity with complete wetting of the cavity walls



# Single shades

Available from:

- 13 shades for aesthetic restorations perfectly coordinated with the packable GrandioSO
- High shade stability
- · Very good polishability and long-lasting lustre
- Extremely high radiopacity (500% AI) of GrandioSO Flow WO for particularly sharp contrast to the dental hard tissue and to other restorative materials



#### **Presentation**

REF 2680	GrandioSO	Heavy Flow se	et syringe 5	$\times$ 2 g (A2,
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A3, A3.5, VCA5, WO), shade guide, accessories

REF 2720 GrandioSO Flow set syringe  $5 \times 2$  g (A1, A2,

A3, A3.5, WO), shade guide, accessories

REF 2607 GrandioSO shade guide

	Single shades	A1	A2	A3	A3.5	A4	<sup>vc</sup> A5	B1	B2	C2	- 1	OA2	BL	WO
GrandioSO Heavy Flow	Syringe 2 × 2 g	2684	2685	2686	2687	2688	2689	2690	2691	2692	-	2693	2695	2696
	Caps 16 × 0,25 g	2704	2705	2706	2707	2708	-	2712	-	-	-	-	-	-
GrandioSO Flow	Syringe 2 × 2 g	2722	2723	2724	2725	2726	2727	2729	2730	2732	2733	2734	2736	2737
	Caps 16 × 0,25 g	2742	2743	2744	2745	2746	-	2749	-	-	-	-	-	-

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