

# Grandio<sup>®</sup>SO and Grandio<sup>®</sup>SO Heavy Flow

**\_GrandioSO**, the new, universal nano-hybrid restorative for all classes of cavity, meets the highest demands for restorations in anterior and posterior regions. GrandioSO is suitable for Class I to V restorations, reconstruction of traumatically injured anterior teeth, interlocking and splinting of loosened teeth, corrections of shape and shade to enhance aesthetic appearance, core build-up for crowns, and the fabrication of composite inlays.

As it offers superb material properties, GrandioSO is a most toothlike material with regard to its physical parameters. It

allows for equally durable and aesthetic restorations, owing to a very high filler content (89 w/w%) and low shrinkage (1.61 %), a high compressive and flexural strength (439 MPa and 187 MPa, respectively), an E-modulus (16.65 GPa) and thermal expansion behaviour ( $\alpha = 27.3 \times [10^{-6} \times K^{-1}]$ ) similar to dentine, a very high surface hardness (210,9 MHV), low abrasion (18  $\mu\text{m}$ , ACTA with 200,000 cycles), as well as the optimal balance of translucence and opacity. GrandioSO polishes very well and owing to its outstanding abrasion resistance the restoration remains permanently lustrous. With 16 different shades, including the new shades <sup>VC</sup>A3.25 and <sup>VC</sup>A5, the entire spectrum relevant to dentistry is covered.

GrandioSO Heavy Flow, a high-viscosity flowable universal nano-hybrid restorative, has a very high filler content (83 w/w%) and exceptional stability in comparison with conventional flow composites, as well as excellent wetting properties. Thus, it is recommended for any type of treatment that requires these qualities. For composite restorations that are directly modelled in the mouth, the increased viscosity results in simplified and stress-free placement of the composite layers. GrandioSO Heavy Flow is suitable for minimally invasive restorations of all types; restorations of small Class I cavities and extended fissure-sealing; Class II to V restorations, including treatment of cuneiform defects and cervical caries; blocking-out of undercuts; repair of fillings and veneers; luting of translucent prostheses (for example, full ceramic crowns); and interlocking and splinting of teeth with glass-fibre strands such

as GrandTEC. It can also be used as base material, in combination with glass-fibre strands, for the fabrication of semi-permanent crowns and bridges.

## **\_Optimal handling**

Owing to its smooth consistency, GrandioSO is readily packable and sculpts well without sticking to the instrument. In addition, it combines exceptionally long workability under ambient light with very short setting times during subsequent polymerisation. It is possible to cure the material reliably in 10 seconds per 2 mm increment. GrandioSO is available in easy-to-use rotating syringes and particularly economical caps.

GrandioSO Heavy Flow is subject to far lower shrinkage than conventional flow materials during polymerisation (2.96 %). It also features high compressive and flexural strength (417 MPa and 159 MPa, respectively), an E-modulus that is extremely high for a flowable material (11.85 GPa), a high surface hardness (175 MHV), as well as low abrasion (40  $\mu\text{m}$ , ACTA with 200,000 cycles). This slow flowing composite, which complements flowables with conventional viscosity, offers users many advantages. On the one hand, it offers a longer working period during which the material can be placed in the cavity and distributed before polymerisation; on the other hand, less time is required for the removal of any excess due to running of the material.



Owing to its reduced flowability, GrandioSO Heavy Flow is well suited to all fillings that do not require elaborate sculpting. Its excellent material and handling properties make GrandioSO Heavy Flow superior to many packable composites. GrandioSO Heavy Flow is available in a non-run, non-drip NDT syringe in ten shades and as caps in five shades. GrandioSO and GrandioSO Heavy Flow may also be used in combination.

**\_contact** **cosmetic**  
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ANNUAL DENTAL TRIBUNE STUDY CLUB

# SYMPOSIA AT THE GNYDM

NOVEMBER 28 – DECEMBER 1, 2010, 10:00 AM DAILY



For the third year in a row, the DTSC hosts its annual CE Symposia at the GNYDM, offering four days of focused lectures in various areas of dentistry. Find us on the Exhibition Floor in Aisle 6000, Room # 3.

Each day will feature a variety of presentations on topics, which will be led by experts in that field. Participants will earn ADA CERP CE credits for each lecture they attend. DTSC is the official online education partner of GNYDM.



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FREE FOR REGISTERED GNYDM ATTENDEES, BUT PRE-REGISTRATION IS RECOMMENDED.

For more information, please contact Julia E. Wehkamp, C.E. Director, Dental Tribune Study Club  
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## SUNDAY, NOVEMBER 28

10:00 - 11:00 Howard Glazer, DDS, FAGD

**BEAUTIFIL: GO WITH THE FLOW - COURSE: 3020**

11:20 - 12:20 John Flucke, DDS

**LIGHT CURED ADHESIVE DENTISTRY - SCIENCE AND SUBSTANCE - COURSE: 3030**

1:20 - 2:20 Martin Goldstein, DMD

**A SIMPLIFIED APPROACH TO MULTI-LAYER DIRECT COMPOSITE BONDING - COURSE: 3040**

2:40 - 3:40 Jay Reznick, DMD, MD

**3D IMAGING AND CT-GUIDED DENTAL IMPLANT SURGERY - 3050**

4:00 - 5:00 Louis Malcmacher, DDS, MAGD

**TOTAL FACIAL ESTHETICS FOR EVERY DENTAL PRACTICE - COURSE: 3060**

## MONDAY, NOVEMBER 29

10:00 - 11:00 Mrs. Noel Brandon-Kelsch

**ECO-FRIENDLY INFECTION CONTROL-UNDERSTANDING THE BALANCE - COURSE: 4120**

11:20 - 12:20 Gregori Kurtzman, DDS

**INCORPORATING NEW ADVANCES IN DENTAL MATERIALS AND TECHNIQUES INTO YOUR RESTORATIVE PRACTICE - COURSE: 4130**

1:20 - 2:20 Damien Mulvany, DDS

**OPTIMIZING YOUR PRACTICE WITH 3D CONE-BEAM TECHNOLOGY - COURSE: 4140**

2:40 - 3:40 Edward Katz, DDS

**IMPROVING PATIENT CARE WITH 3D CONE BEAM COMPUTERIZED TOMOGRAPHY - COURSE: 4150**

4:00 - 5:00 George Freedman, Fay Goldstep and Edward Lynch

**SOFT TISSUE LASERS AND CARIES DIAGNOSIS - COURSE: 4160**

## TUESDAY, NOVEMBER 30

10:00 - 11:00 George Freedman, Fay Goldstep and Edward Lynch

**SOFT TISSUE LASERS AND CARIES DIAGNOSIS - COURSE: 5110**

11:20 - 12:20 Greg Diamond, DDS

**LASERS IN PERIODONTAL THERAPY - COURSE: 5120**

1:20 - 2:20 Dov Almog, DMD

**INTRODUCTION TO CONE BEAM CT (CBCT), ESPECIALLY AS IT PERTAINS TO PREVENTION OF FAILURES IN ORAL IMPLANTOLOGY - COURSE: 5130**

2:30 - 3:30 Maria Ryan, DDS, PhD

**DETECTING CORONARY HEART THROUGH PERIODONTITIS AND PERIIMPLANTITIS - COURSE: 5140**

4:00 - 5:00 Dwayne Karateew, DDS

**CONTEMPORARY CONCEPTS IN TOOTH RELACEMENT: PARADIGM SHIFT - COURSE: 5150**

## WEDNESDAY, DECEMBER 1

10:00 - 11:00 Mr. Al Dube

**BEST MANAGEMENT PRACTICE, WASTE MANAGEMENT FOR THE DENTAL OFFICE, AND OSHA COMPLIANCE - COURSE: 6060**

11:20 - 12:20 Glenn van As, DMD

**HARD AND SOFT TISSUE LASERS - COURSE: 6070**

12:45 - 4:45 Dr. Benedict Bachstein, Dr. David Hoexter, Dr. Jeffery Hoos, Dr. Dwayne Karateew, Dr. Enrique Merino, Dr. Ethan Pansick

**THE FIRST ANNUAL OSSEO UNIVERSITY SUMMIT: IMPLANT DRIVEN DENTISTRY - COURSE: 6080**

THIS PROGRAM IS SUBJECT TO CHANGE

