...red and white esthetic restorations in perfect harmony for the perfect smile!

When you want to use a composite restorative and the quality of your work demands using only the best, there is no finer system than GRADIA®. Years of experience have shown that with GRADIA you can create beautiful, life-like restorations without the ‘paleness’ of traditional composites as well as restorations with all the toughness of natural teeth.

Another benefit with GRADIA is that GRADIA® gum shades, our gingiva build-up composite, is an integral part of the GRADIA system. Used separately, each product gives superb results. But if a patient requires teeth and gum restorations where their ‘white’ and ‘red’ esthetics need to be finely balanced, then the complete system is ideal. The shades and accessories of both products are fully harmonized so you can precisely color match your restorations to the patient and to each other, regardless of age or ethnicity.

So for a system that will challenge and inspire your creativity, and help you achieve the highest level of ‘red and white’ esthetic artistry, try the GRADIA ‘red and white’ composite system.
GRADIA Gum exhibits an incredible pallet of colors for creating rich, vital tissue augmentation on reconstruction cases. The comprehensive system of opaque and translucent effects offer endless possibilities in replicating nature. GRADIA also exhibits the strength, bond and finish characteristics that I demand for a long lasting functional restoration.

-Michael Gorshe,
MG Artology / Nexus
Des Plaines, IL

“GRADIA Gum is the best all around pink material period! It is my go to choice for Hybrid and full mouth cases involving tissue restoring. It possesses the life like simulation my patients demand and the versatility and ease of use I demand at the bench!”

-Joshua Polansky,Niche Dental Studio
Integer, IL

“GRADIA Gum Shades has worked out very well for us. It saves at least two firings on the porcelain, and even looks more life-like and natural.

-Albert Tassi, Albert Tassi Dental Studio
Elmhurst, IL

“GRADIA direct is the best indirect composite system we have ever worked with. We use it for inlays, onlays, single units, and for large implant cases. The Metal Primer II creates the best bond to metal substructures that have insured success for our GRADIA bonded to metal. With such a vast range of shades, translucent materials, and characterization material, GRADIA has all the possibilities of ceramic.”

-Stan Chzanowski, S&E Dental Studio
Algonquin, IL

“I have used the GRADIA indirect composite system from GC since 2004. I have used many indirect composites in the past and found the GRADIA material to be by far a superior material. It has life-like characteristics and superior chameleon effect. The system is very easy to learn and does not require long curing times. It offers every shade, translucency, modifier, etc. that could be found in advanced porcelain systems. I highly recommend GRADIA as a indirect restorative material.”

-Cris Djurickovic, Euro Aesthetics
Des Plaines, IL
Traditional composites give strong and durable restorations but their esthetics are generally not as good as a porcelain. In particular, their pale opalescence and fluorescence make reproducing natural tooth color difficult, especially when viewed under the light conditions normally found in the oral cavity. All that has changed however, with the introduction of GRADIA.

A WIDE RANGE OF INDICATIONS

GRADIA is a light-curable micro-ceramic-composite resin that is ideal for creating all types of anterior or posterior restorations, using any framework.
GRADIA anterior jacket crown
GRADIA posterior metal supported crown
GRADIA metal supported bridge
GRADIA inlay
GRADIA laminate veneer
GRADIA fiber reinforced restoration
The dentin layers with GRADIA have an enhanced brightness and masking ability that adjusts the opalescence of the composites and subdues the paleness of resin. This gives a bright color tone in the oral cavity and eliminates unnatural translucency at the incisal edge.

GRADIA has a more natural opalescence compared to the more pale opalescence of conventional composites.

A comparison of fluorescence on a black background - as in the mouth - shows that GRADIA has a more natural fluorescence than other products.
OPTIMIZED AND HARMONIZED SHADES

By optimizing chroma, fluorescence, opalescence and transparency, even the thinnest layers of GRADIA produce excellent color-matching comparable to natural dentition. The layering shades of GRADIA are harmonized to complement each another, so no matter what tooth shade or characteristic you have to match, creating a life-like restoration is simple. To add individual touches and accents, a variety of unique stain and effect shades have been developed for internal layering.

Bleach shades are also available of which there are two dentins: DA0 and DB0, one opaque OW and two adapted enamels.

GRADIA (AO)

GRADIA SHADE CHART

<table>
<thead>
<tr>
<th>FOUNDATION</th>
<th>A1</th>
<th>A2</th>
<th>A3</th>
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<th>A4</th>
<th>B1</th>
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SHOULDER DENTIN

OPAQUES DENTIN INTENSIVE

HALO ENAMEL

PEARL ENAMEL

ENAMEL INTENSIVE

TRANSUCENT

CERVICAL TRANSLUCENT

MAMELON STAIN

INTENSIVE COLOR

For Characterisation

*1: When using OPAQUES DENTIN (OD) and OPAQUES DENTIN INTENSIVE (ODI) a cervical color

*2: ENAMEL INTENSIVE (E1T) will give almost the same effects as CERVICAL TRANSLUCENT

All shades are matched to the Vitapan® Classical shade guide. Vita® is a registered trademark of Vita Zahnfabrik, Bad Säckingen.
GRADIA is an advanced ‘MFR composite’. Its internal structure consists of reinforced bonds between an organic/inorganic filler and a lightly-filled matrix resin which together impart a very high mechanical strength while being ‘gentle’ on opposing teeth.

This makes GRADIA particularly suitable for posterior high-wear, high-pressure restorations that are prone to chipping or cracking when made with porcelain. The composite is also simple to handle, biocompatible, very technique tolerant and can be easily polished to a beautiful natural gloss.

**GRADIA**

**Product A**: Conventional composite

**Product B**: Last-generation composite for restorations

**Product C**: Hybrid composite

---

**FLEXURAL ENERGY (MPA)**

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**FLEXURAL STRENGTH (MPA)**

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DENTIN TRANSLUCENTS/ OPACITY COMPARISONS

GRADIA’s brightness and color transmission are much closer to natural dentin than other hard resin materials. Similar to porcelain.

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### GRADIA PHYSICAL PROPERTIES AND CURE TIMES

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<th>PRODUCT</th>
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<td>FLEXURAL MODULUS (MPa)</td>
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<tr>
<td>OCCLUSAL WEAR VS. ALLOY (µm)</td>
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### CURING UNIT

<table>
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<tr>
<th>CURE STORAGE</th>
<th>GC LABOLIGHT LV-III</th>
<th>GC STEPLIGHT SL-1</th>
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<tr>
<td>FOUNDATION OPAQUE OPAQUE MARGIN OPAQUE</td>
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<td>-</td>
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<tr>
<td>DENTIN OPAQUE DENTIN OPAQUE DENTIN INTENSIVE SHOULDER DENTIN, ENAMEL PEARL ENAMEL HALO ENAMEL ENAMEL INTENSIVE TRANSLUCENT CERVICAL TRANSLUCENT</td>
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<td>3 Min.</td>
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<tr>
<td>INTENSIVE COLOR MAMELON STAINS</td>
<td>30 Sec.</td>
<td>-</td>
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</tbody>
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![Diagram showing dentin layers and cure times for GRADIA, COMPETITOR'S DENTIN, and GRADIA OPAQUE DENTIN]
ONE SIMPLE BUILD-UP TECHNIQUE

As all GRADIA shades are harmonized you only need to learn one simple build-up procedure. Whether using standard or multi-layer techniques, you don’t have to adjust your technique for different indications. The system also comes with preparation forms so you can obtain from the dentist all the required case information before you start work.
BY MEANS OF A SIMPLE STANDARDIZED BUILD-UP TECHNIQUE, LIFE-LIKE ESTHETICS CAN BE REPRODUCED.

The results: Life-like esthetics using Gradia’s one build-up technique.
For life-like gum restorations it is just as important to use a composite system which makes the most of your ‘red esthetic’ skills, as it is to use your ‘white esthetic’ skills to create life-like teeth. This is where GRADIA gum shades comes in.

**WIDE RANGE OF INDICATIONS**

GRADIA gum shades is a specialized light-curable micro-composite that can reproduce gingival tissues for indications such as implant superstructures and other fixed or removable prostheses like crowns, bridges and partial dentures.

**STRONG, DURABLE AND IN A VARIETY OF RED SHADES**

The strength, durability and handling properties of GRADIA gum shades are all very similar to GRADIA. It also has a wide variety of red shades so you can closely match a patient’s gingival tissue regardless of their age or ethnicity.

**THREE COMPOSITE VISCOSITIES**

To reproduce different areas of gingival tissue, the GRADIA gum shades composite comes in three viscosities; a liquid (GRADIA gum shades Opaque), a paste (GRADIA gum shades Body) and a gel (GRADIA gum shades Modifier and GRADIA gum shades Translucent). When combined with the harmonized color system, you get an almost unlimited number of color and texture combinations.

For example, there are many ways GRADIA gum shades could be used to recreate the natural gum tissues shown here in the pictures. One possible method to reproduce the gums in the left-hand picture would be to use GRADIA gum shades Opaque GO11 combined with GRADIA gum shades G21, while for the gums in the right-hand picture you could use a combination of GRADIA gum shades Opaque GO13 and GRADIA gum shades G24.
GRADIA gum shades Color Chart

<table>
<thead>
<tr>
<th>OPAQUE</th>
<th>GUM OPAQUE</th>
<th>GUM FIBER</th>
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<tr>
<td></td>
<td>GO11</td>
<td>GF1</td>
<td>G015</td>
<td>G016</td>
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<td></td>
<td>GO12</td>
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<td></td>
<td>GO13</td>
<td></td>
<td></td>
<td>G018</td>
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<tr>
<td>GUM OPAQUE MODIFIER</td>
<td>GOM51</td>
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<tr>
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<td>GUM</td>
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<td>TRANSLUCENT</td>
<td>GUM TRANSLUCENT</td>
<td>GT41</td>
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</table>

EASY TO BUILD

Just like GRADIA, GRADIA gum shades has only one simple build-up procedure for standard or multi-layer techniques so you don’t have to adjust your technique for different indications. Each step is repeatedly pre-cured according to specific pre-set curing times. And that’s all there is to it!

RED AND WHITE IN PERFECT HARMONY

When creating teeth and gum restorations for the same patient it’s important to balance their red and white esthetics. GRADIA gum shades is harmonized to both the GRADIA composite system and our GC Initial™ Ceramic System, so whichever material is preferred, it’s easy to get the right esthetic balance for your restorations. There are also accessories like primers to integrate the different systems. For details on GC Initial visit www.gcamerica.com.
GRADIA®

Gum shades Case Studies

Restoration by Dr. Christian Coachmen

Restoration by Dr. Christian Coachmen
GRADIA and GRADIA gum shades are packaged into convenient, environmentally-friendly syringes and sold as sets. Refills of both products are also available.

**GRADIA Standard Set**
Designed for standard layering and to meet the 'standard' requirements of the Vitapan® Classical shade guide. Contains all the fundamental opaque composites, shade composites and liquids. (6 V-shades, total of 26 syringes).

**GRADIA Master Set**
Designed for multi-layering, this set contains the full range of shades and accessories required for high-end esthetics. (10 V-shades, total of 57 syringes).

*All shades are matched to the Vitapan® Classical shade guide. Vita® is a registered trademark of Vita Zahnfabrik, Bad Säckingen.*
Create perfect smiles with the GRADIA ‘red and white’ system.
Contact your local GC representative today.

GRADIA Intensive Color Set
Staining shades to achieve maximum esthetics. (11 shades).

GRADIA gum shades Starter Set
Contains the key gum composites, shades and liquids plus accessories. Order refills when required. (17 shades available).

Bonding Primers
The GRADIA system has a range of primers for bonding different materials during restoration. COMPOSITE PRIMER bonds composites and is also for bonding when individualizing artificial teeth and acrylic denture bases. METAL PRIMER II bonds acrylics and composites to metals, whilst CERAMIC PRIMER bonds resins, composites and acrylics to ceramics.
Labolight LV-III
For the full curing of resins with accurate and uniform irradiation.

Syringe Plunger

Shade Guide Kit

Steplight SL-1
For smooth pre-curing in 10 sec. irradiations with minimal repositioning.

GRADIA Separator
(liquid 5ml)

GRADIA Die-Hardener
(liquid 5ml)

GRADIA Dia Polisher
(8g cad)

GRADIA Air Barrier
(liquid 10ml)

GRADIA Air Barrier
(liquid 10ml)

GRADIA Air Barrier
(liquid 10ml)
Ordering Information

001431
001430
001429
001427
001424
GRADIA OPAQUE OD2
GRADIA OPAQUE OB3
GRADIA OPAQUE OA1
GRADIA MASTER SET 10 SHADES

friendly syringe. The syringe body and screwplunger

001479
001475
001471
001470
001469
GRADIA DENTIN DD4
GRADIA DENTIN DD2
GRADIA DENTIN DC3
GRADIA DENTIN DC2
GRADIA DENTIN DC1
GRADIA DENTIN DB3
GRADIA DENTIN DA4
GRADIA DENTIN DA3.5
GRADIA DENTIN DA2
GRADIA SHOULDER DENTIN SD5
GRADIA SHOULDER DENTIN SD4
GRADIA SHOULDER DENTIN SD2
GRADIA OPAQUE DENTIN ODI2
GRADIA OPAQUE DENTIN ODD4
GRADIA OPAQUE DENTIN ODC2
GRADIA OPAQUE DENTIN ODC1
GRADIA OPAQUE DENTIN ODB4
GRADIA OPAQUE DENTIN ODB2
GRADIA OPAQUE DENTIN ODA3
GRADIA OPAQUE DENTIN ODA1

GRADIA SG PLATE
GRADIA STANDARD SET 6 SHADES

GRADIA INTENSIVE COLOR IC13
GRADIA INTENSIVE COLOR IC12
GRADIA INTENSIVE COLOR IC11
GRADIA INTENSIVE COLOR IC10
GRADIA INTENSIVE COLOR IC9
GRADIA INTENSIVE COLOR IC7

GRADIA STANDARD SYSTEM PACK
GRADIA MASTER SYSTEM PACK

GRADIA ENAMEL INTENS ODI5
GRADIA OPAQUE DENTIN INTENS ODI5

301517
301419
002441
002438
002436
GRADIA COMPOSITE PRIMER 3ML
GRADIA GUM SHADES MODIFIER GMC51
GRADIA GUM SHADES MODIFIER GMC52
GRADIA GUM SHADES MODIFIER GMC53
GRADIA GUM SHADES MODIFIER GMC54
GRADIA GUM SHADES MODIFIER GMC55
GRADIA GUM SHADES MODIFIER GMC56

New environmentally friendly syringe. The syringe body and screwplunger can be reused by simply replacing the paste barrel.