



GRADIA®

GC



GRADIA®

...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.

here's what

INDUSTRY EXPERTS

are saying



"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*

"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*

"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*

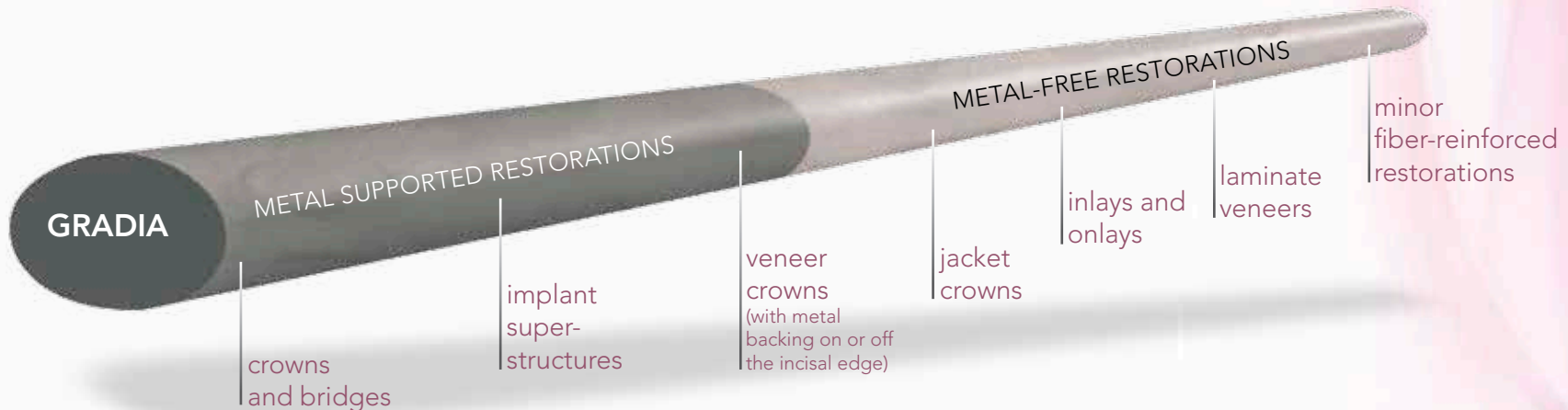
GRADIA®

...for superior 'white' esthetics

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 posterior metal supported crown



GRADIA metal supported bridge



GRADIA anterior jacket crown



GRADIA inlay



GRADIA laminate veneer



GRADIA fiber reinforced restoration

GRADIA[®]

...natural chroma and opalescence

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.



Jacket crown made with conventional composite

Jacket crown made with GRADIA

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



GRADIA

PRODUCT A

PRODUCT B

PRODUCT C

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



GRADIA

PRODUCT A

PRODUCT B

PRODUCT C

OPTIMIZED AND HARMONIZED SHADES

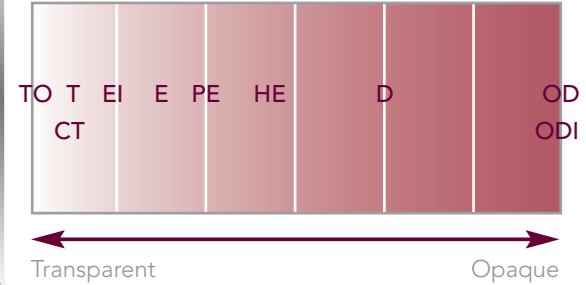
By optimizing chroma, fluorescence, opalescence and transparency, even the thinnest layers of GRADIA produce excellent color-matching comparable to natural dentition. The layering shades of GRADIA are harmonized to compliment each another, so no matter what tooth shade or characteristic you have to match, 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.



GRADIA (AO)

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

MASKING EFFECT OF PASTES



GRADIA SHADE CHART

	A1	A2	A3	A 3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
FOUNDATION OPAQUE	FO															
MARGIN OPAQUE	MO															
OPAQUE	OA1	OA2	OA3	OA3.5	OA4	OB1	OB2	OB3	OB4	OC1	OC2	OC3	OC4	OD2	OD3	OD4
OPAQUES DENTIN, OPAQUES DENTIN, INTENSIVE *1	ODA2	ODA3	ODA3.5	ODA4	OD13	ODB2	ODB3	ODB4	OD12	ODC2	ODC3	ODC4	OD15	ODD3	ODD4	OD16
OPAQUES DENTIN	ODA1	ODA2	ODA3	ODA3.5	ODA4	ODB1	ODB2	ODB3	ODB4	ODC1	ODC2	ODC3	ODC4	ODD2	ODD3	ODD4
DENTIN	DA1	DA2	DA3	DA3.5	DA4	DB1	DB2	DB3	DB4	DC1	DC2	DC3	DC4	DD2	DD3	DD4
ENAMEL	E2		E3		E4	E1	E2	E3		E2	E3	E4	E2	E3		
ENAMEL INTENSIVE	EI1															
CERVICAL TRANSCUENT	*2 CT2		CT4	CT3	*2 CT2		CT4	*2 CT2		CT3	CT2	CT4				

SHOULDER DENTIN	SD2	SD3	SD4	SD5	SD7	SD8									
OPAQUES DENTIN INTENSIVE	OD11	OD12	OD13	OD14	OD15	OD16									
HALO ENAMEL	HE1														
PEARL ENAMEL	PE1	PE3													
ENAMEL INTENSIVE	E11	E13	E15												
TRANSCUENT	T0	T1	T2	T4	T5										
CERVICAL TRANSCUENT	CT2	CT3	CT4												
MAMELON STAIN	MS2	MS3	MS4												
INTENSIVE COLOR	A1	A2	A3	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3

For Characterisation

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

*2: ENAMEL INTENSIVE (EI) will give almost the same effects as CERVICAL TRANSCUENT

All shades are matched to the Vitapan® Classical shade guide. Vita® is a registered trademark of Vita Zahnfabrik, Bad Säckingen.

GRADIA[®]

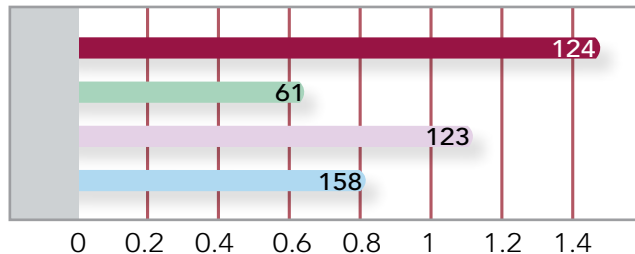
...strong, durable, beautiful

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.

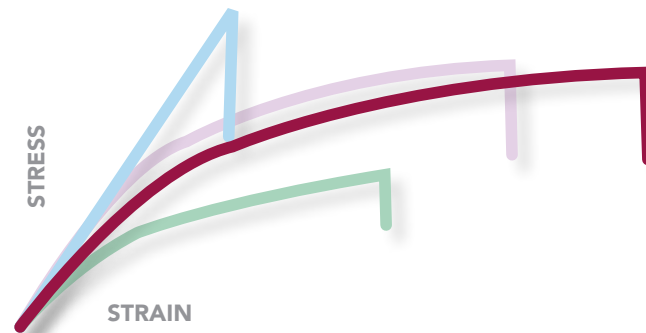
This makes GRADIA particularly suitable for posterior high-wear, high-pressure restorations that are prone to chipping or cracking when made with porcelain. The composite is also simple to handle, biocompatible, very technique tolerant and can be easily polished to a beautiful natural gloss.

- GRADIA**
- Product A:** Conventional composite
- Product B:** Last-generation composite for restorations
- Product C:** Hybrid composite

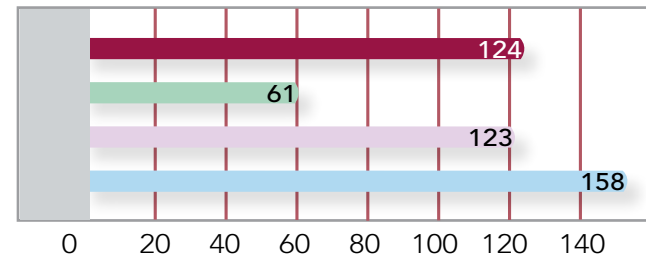
FLEXURAL ENERGY (MPA)



STRESS-STRAIN CURVE (FRACTURE RESISTANCE)



FLEXURAL STRENGTH (MPA)





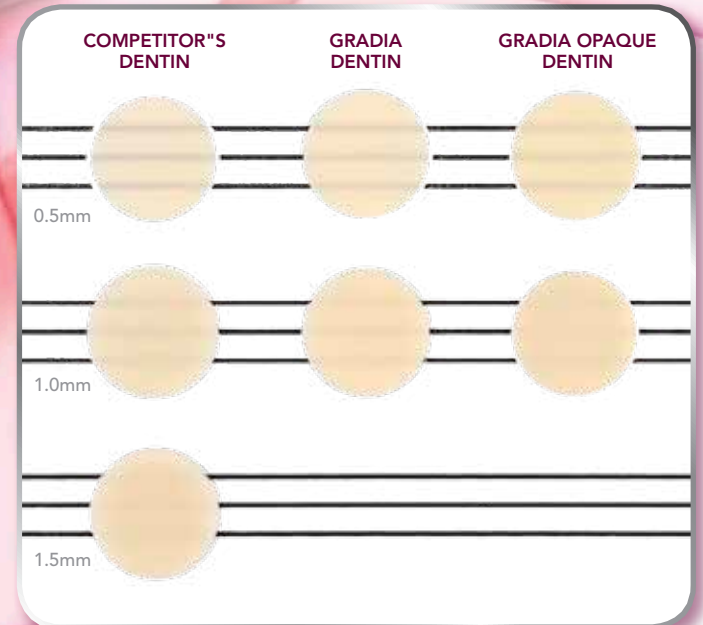
GRADIA PHYSICAL PROPERTIES AND CURE TIMES

PRODUCT	GRADIA	Product A	Product B
FLEXURAL STRENGTH (MPa)	124	123	172
FLEXURAL MODULUS (MPa)	6.92	9.13	11.50
FLEXURAL ENERGY (MPa)	1.50	1.13	1.52
OCCLUSAL WEARVS. ALLOY (µm)	4.0	6.8	7.5

CURING UNIT	GC LABOLIGHT LV-III GC STEPLIGHT SL-1		
CURE STORAGE	PRE-	FINAL	PRE-
FOUNDATION OPAQUE OPAQUE MARGIN OPAQUE	1 Min.	-	-
DENTIN OPAQUE DENTIN OPAQUE DENTIN INTENSIVE SHOULDER DENTIN, ENAMEL PEARL ENAMEL HALO ENAMEL ENAMEL INTENSIVE TRANSLUCENT CERVICAL TRANSLUCENT	30 Sec.	3 Min.	10 Sec.*
INTENSIVE COLOR MAMELON STAINS	30 Sec.	-	10 Sec*

DENTIN TRANSLUCENTS/ OPACITY COMPARISONS

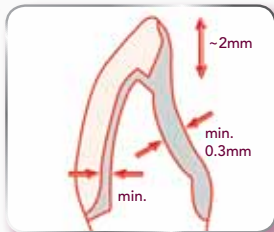
GRADIA's brightness and color transmission are much closer to natural dentin than other hard resin materials. Similar to porcelain.



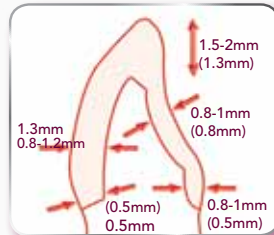
GRADIA®

ONE SIMPLE BUILD-UP TECHNIQUE

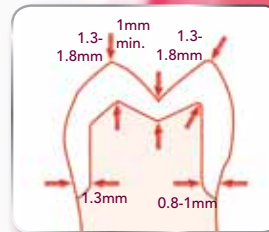
As all GRADIA shades are harmonized you only need to learn one simple buildup procedure. Whether using standard or multi-layer techniques, you don't have to adjust your technique for different indications. The system also comes with preparation forms so you can obtain from the dentist all the required case information before you start work.



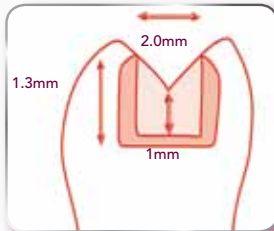
Anterior veneer crown
(with metal backing up to incisal edge)



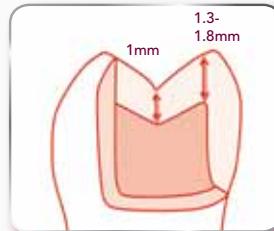
Anterior jacket crown



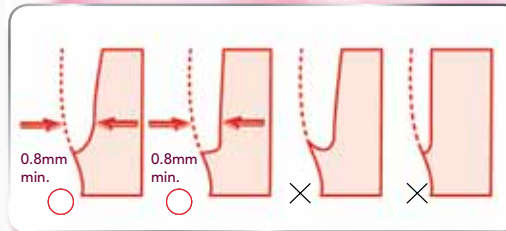
Posterior jacket crown



Inlay



Onlay



Preparation of margin



BY MEANS OF A SIMPLE STANDARDIZED BUILD-UP TECHNIQUE, LIFE-LIKE ESTHETICS CAN BE REPRODUCED.



Uniform application of the opaque



Application in the cervical area of the corresponding opaques Dentin



Translucent shield (optional)



Application of Dentin



Application of Translucent stain and effect shades (optional)



Finished crown after application of Cervical Translucent and enamel Intensive shades



The results: Life-like esthetics using Gradia's one build-up technique.

GRADIA[®] gum shades

...for superior 'red' esthetics

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

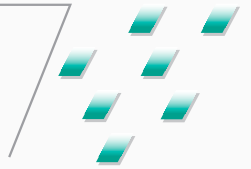
The strength, durability and handling properties of GRADIA gum shades are all very similar to GRADIA. It also has a wide variety of red shades so you can closely match a patient's gingival tissue regardless of their age or ethnicity.

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								
OPAQUE	GUM OPAQUE	GO11	GO12	GO13		GUM FIBER	GF71	
	GUM OPAQUE MODIFIER	GOM51						
MODIFIER	GUM	G20	G21	G22	G23	G24		
GUM OPAQUE MODIFIER	GUM MODIFIER	GM30	GM31	GM32	GM33	GM34	GM35	GM36
TRANSLUCENT	GUM TRANSLUCENT	GT41						

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 with GC Initial™ Ti



GRADIA with GRADIA gum shades

GRADIA[®] gum shades Case Studies

Restoration by Dr. Christian Coachmen



Restoration by Dr. Christian Coachmen





Restoration by Dr. Christian Coachmen



Restoration by Jim Collis, CDT



THE GRADIA® SYSTEM

...sets and accessories for every need

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.

GRADIA® OTHER ACCESSORIES



GRADIA Separator
(liquid 5ml)



GRADIA Die-Hardener
(liquid 5ml)



GRADIA Dia Polisher
(8g cad)



GRADIA Air Barrier
(liquid 10ml)



Syringe Plunger



Shade Guide Kit



Steplight SL-1

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



Labolight LV-III

For the full curing of resins with accurate and uniform irradiation.

Ordering Information

001193 LABOLIGHT LV-111 LIGHT BULB
001419 GRADIA MASTER SET 10 SHADES
001420 GRADIA FOUNDATION OPAQUE
001421 GRADIA OPAQUE OA1
001422 GRADIA OPAQUE OA2
001423 GRADIA OPAQUE OA3
001424 GRADIA OPAQUE OA3.5
001425 GRADIA OPAQUE OA4
001426 GRADIA OPAQUE OB1
001427 GRADIA OPAQUE OB2
001428 GRADIA OPAQUE OB3
001429 GRADIA OPAQUE OB4
001430 GRADIA OPAQUE OC1
001431 GRADIA OPAQUE OC2
001432 GRADIA OPAQUE OC3
001433 GRADIA OPAQUE OC4
001434 GRADIA OPAQUE OD2
001435 GRADIA OPAQUE OD3
001436 GRADIA OPAQUE OD4

001437 GRADIA MARGIN OPAQUE
001438 GRADIA OPAQUE DENTIN ODA1
001439 GRADIA OPAQUE DENTIN ODA2
001440 GRADIA OPAQUE DENTIN ODA3
001441 GRADIA OPAQUE DENTIN ODA3,5
001442 GRADIA OPAQUE DENTIN ODA4
001443 GRADIA OPAQUE DENTIN ODB1
001444 GRADIA OPAQUE DENTIN ODB2
001445 GRADIA OPAQUE DENTIN ODB3
001446 GRADIA OPAQUE DENTIN ODB4
001447 GRADIA OPAQUE DENTIN ODC1
001448 GRADIA OPAQUE DENTIN ODC2
001449 GRADIA OPAQUE DENTIN ODC3
001450 GRADIA OPAQUE DENTIN ODC4
001451 GRADIA OPAQUE DENTIN ODD2
001452 GRADIA OPAQUE DENTIN ODD3
001453 GRADIA OPAQUE DENTIN ODD4
001454 GRADIA OPAQUE DENTIN ODI1
001455 GRADIA OPAQUE DENTIN ODI2
001456 GRADIA OPAQUE DENTIN ODI3
001457 GRADIA OPAQUE DENTIN ODI4
001458 GRADIA SHOULDER DENTIN SD2
001459 GRADIA SHOULDER DENTIN SD3
001460 GRADIA SHOULDER DENTIN SD4
001461 GRADIA SHOULDER DENTIN SD5
001462 GRADIA SHOULDER DENTIN SD7
001463 GRADIA SHOULDER DENTIN SD8
001464 GRADIA DENTIN DA1
001465 GRADIA DENTIN DA2
001466 GRADIA DENTIN DA3
001467 GRADIA DENTIN DA3.5
001468 GRADIA DENTIN DA4
001469 GRADIA DENTIN DB1
001470 GRADIA DENTIN DB2
001471 GRADIA DENTIN DB3
001472 GRADIA DENTIN DB4
001473 GRADIA DENTIN DC1
001474 GRADIA DENTIN DC2
001475 GRADIA DENTIN DC3
001476 GRADIA DENTIN DC4
001477 GRADIA DENTIN DD2
001478 GRADIA DENTIN DD3
001479 GRADIA DENTIN DD4

001480 GRADIA ENAMEL E1
001481 GRADIA ENAMEL E2
001482 GRADIA ENAMEL E3
001483 GRADIA ENAMEL E4
001484 GRADIA HALO ENAMEL HE1
001485 GRADIA PEARL ENAMEL PE1
001486 GRADIA PEARL ENAMEL PE3
001487 GRADIA ENAMEL INTENSIVE E1
001488 GRADIA ENAMEL INTENSIVE E3
001489 GRADIA TRANSLUCENT T0
001490 GRADIA TRANSLUCENT T1
001491 GRADIA TRANSLUCENT T2
001492 GRADIA TRANSLUCENT T4
001493 GRADIA CERVICAL TRANSLUCENT CT2
001494 GRADIA CERVICAL TRANSLUCENT CT3
001495 GRADIA CERVICAL TRANSLUCENT CT4
001496 GRADIA INTENSIVE COLOR IC0
001497 GRADIA INTENSIVE COLOR IC1
001498 GRADIA INTENSIVE COLOR IC2
001499 GRADIA INTENSIVE COLOR IC3
001500 GRADIA INTENSIVE COLOR IC4
001501 GRADIA INTENSIVE COLOR IC5
001502 GRADIA INTENSIVE COLOR IC6
001503 GRADIA INTENSIVE COLOR IC7
001504 GRADIA INTENSIVE COLOR IC8
001505 GRADIA INTENSIVE COLOR IC9
001506 GRADIA INTENSIVE COLOR IC10
001507 GRADIA INTENSIVE COLOR IC11
001508 GRADIA INTENSIVE COLOR IC12
001509 GRADIA INTENSIVE COLOR IC13
001510 GRADIA INTENSIVE COLOR IC14
001511 GRADIA MAMELON STAIN MS2
001512 GRADIA MAMELON STAIN MS3
001513 GRADIA MAMELON STAINS MS5
001514 GRADIA SEPARATOR SML
001515 GRADIA DIE HARDENER 5ML
001516 GRADIA DIAMOND POLISHER 8G
001517 GRADIA STANDARD SET 6 SHADES
001518 GRADIA AIR BARRIER AGENT 10 ML
001519 GRADIA SYRINGE PLUNGER
001520 GRADIA SHADE GUIDE KIT
001521 GRADIA SG CLIP FORMER
001522 GRADIA SG PLATE

001527 GRADIA OPAQUE DENTIN INTENS ODI5
001528 GRADIA OPAQUE DENTIN INTENS ODI6
001529 GRADIA INTENSIVE COLOR SET 11 SHADES
001530 GRADIA COMPOSITE PRIMER 3ML
001538 GRADIA STEP LIGHT
001555 GRADIA LABOLIGHT LV III
001557 STEPLIGHT SL-1 LIGHT BULB
001889 GRADIA GUM SHADES STARTER PACKAGE
001890 GRADIA GUM SHADES OPAQUE GO11-2.4 ML
001891 GRADIA GUM SHADES OPAQUE GO12-2.4 ML
001892 GRADIA GUM SHADES OPAQUE GO13-2.4 ML
001893 GRADIA GUM SHADES OPAQUE MODIFIER GOM51
001894 GRADIA GUM SHADES OPAQUE G20-2.9 ML
001895 GRADIA GUM SHADES G21-2.9 ML
001896 GRADIA GUM SHADES OPAQUE G22-2.9 ML
001897 GRADIA GUM SHADES G23-2.9 ML
001898 GRADIA GUM SHADES MODIFIER G244-2.9 ML
001899 GRADIA GUM SHADES MODIFIER GM30-2.4 ML
001900 GRADIA GUM SHADES MODIFIER GM31-2.4 ML
001901 GRADIA GUM SHADES MODIFIER 5GM32-2.4 ML
001902 GRADIA GUM SHADES MODIFIER GM33-2.4 ML
001903 GRADIA GUM SHADES MODIFIER GM34-2.4 ML
001904 GRADIA GUM SHADES MODIFIER GM35-2.4 ML
001905 GRADIA GUM SHADES MODIFIER GM36-2.4 ML
001906 GRADIA GUM SHADES TRANSLUCENT GT41 2.2ML
001908 GRADIA GUM SHADES FIBER GF71.4 G
002436 GRADIA OPAQUE WHITE OW
002437 GRADIA DENTIN DB0
002438 GRADIA OPAQUE DENTIN ODA0
002439 GRADIA OPAQUE DENTIN ODB0
002440 GRADIA ENAMEL E0
002441 GRADIA ENAMEL INTENSIVE E10
002442 GRADIA FLOWABLE COMPOSITE F-WT
002443 GRADIA FLOWABLE COMPOSITE F-WE
002440 GRADIA DENTIN DA0
301419 GRADIA MASTER SYSTEM PACK
301517 GRADIA STANDARD SYSTEM PACK
301523 GRADIA TECHNIQUE VIDEO



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



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