

GRADIA™ PLUS

A quick start guide for the Painting & Microlayering Technique



Introduction

GC GRADIA™ PLUS is a modular composite system for indirect restorations. The light-curable, nano-hybrid composite has improved physical properties and offers a wide range of clinical applications, unsurpassed durability, natural opalescence and excellent, lifelike aesthetics.

This Quick Start Guide for the Painting and Microlayering Technique will give you a good idea of how easy it is to get a convincing, aesthetic result with minimum effort by using the GRADIA™ PLUS Painting and Microlayering Set.

With this technique a digitally designed and manufactured PMMA, composite or hybrid ceramic framework is characterized using a selection of GRADIA™ PLUS Lustre Paints, Light & Heavy Body syringes by means of painting and micro-layering.

The framework is then mounted and luted onto a metal bar using G-CEM ONE.



1. Preparation



PMMA framework with buccally reduced anteriors and monolithic posteriors.



Milled titanium implant bar. Sandblasted with 50µm at 1.5 bar



Check the fit of both components.

2. Framework preparation



Sandblast the PMMA bridge with 50µm at 1.5 bar and clean.



Apply GC GRADIA PLUS Acrylic Primer.



Light cure GC GRADIA PLUS Acrylic Primer for 3 min. in Labolight DUO.

3. Internal characterization



GC GRADIA PLUS Lustre Paints are used for the characterization of the PMMA framework.

Important: for external characterization, the Lustre Paints should always be diluted using the Lustre Paint Diluting Liquid.



Apply the Lustre Paints to increase the chroma, the effect of translucency and to add an individualized touch.

Light cure (Step-mode: 10 sec. / Full-mode: 3 min.).

4. Gingival characterization



A combination of Gum Light Body GLB-3 and GLB-1 is used to reproduce the gingival area. Gently mix small amounts of GLB-1 in GLB-3 with a brush to create a natural gingival effect.

Light cure.

5. Enamel reproduction



Intermediate result after characterization using Lustre Paints and Gum Light Body.



Cover the tooth area with Light Body Enamel Light or any other enamel shade.



Light cure (Step-mode: 10 sec. / Full-mode: 3 min.).

6. Gingival reproduction



Gum Heavy Body is used to recreate the anatomy of the gingival area.



Final characterizations can be done using Gum Light Bodies or Gum Lustre Paints.
Light cure.



Before final light curing, cover the entire area with AIR BARRIER to eliminate the inhibition layer.
Light cure for 3 min.

7. Shaping



If needed, adjust contour, shape and anatomy using dedicated grinding and finishing instruments.

8.a Handpolishing



Handpolishing can be done using GRADIA DIAPOLISHER with polishing brush wheels.

8.b Glazing using Lustre Paints



Alternatively, glazing can be done using Lustre Paints CL-F (fluorescent) and CL (non-fluorescent). Gently sandblast the surface with 50 μ m at 1.5 bar and clean. Apply Ceramic Primer II and let dry.

Light cure 90 sec.

For external characterization and coating, Lustre Paints should always be diluted using the Diluting Liquid.

9. Luting



Sandblast the inside of the PMMA bridge with 50 μ m at 1.5 bar and clean.



Carefully close insert holes with wax.



Apply METAL PRIMER Z on the entire surface of the Ti bar.



Apply a small amount of G-CEM ONE on the surface of the Ti bar and mount the PMMA framework onto the bar with slight pressure until final position is reached. Remove any excess with a brush dipped in a bit of modelling liquid.





For more tips and tricks, consult
the GRADIA PLUS Technical Manual.



Scan the QR code to check
the Painting & Microlayering Video

BASIC TECHNIQUE



ADVANCED TECHNIQUE



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