One layer efficiency

Creating an esthetic crown using GC America’s Initial IQ-One Body Layering-Over-Metal system.

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GC Initial IQ–One Body, Layering-over-Metal concept enables dental technicians to achieve simple and economical reproduction of standard Vita shades by the application of a single layer. A true one powder build ceramic without compromising esthetics, this compact system enables reproduction of the same esthetic results time and again with fewer materials. The system comprises four new Body materials, which can be combined with the proven three-dimensional Lustre Pastes allowing laboratories to be more productive in less time. Crown buildup can be accomplished using only one powder, allowing full attention to shaping and function. The system also is fully compatible with the existing MC/Initial family product line and with many alloys.

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Fig. A Pre-operatively, the base color is checked.
Fig. B Premolar occlusion color is then checked.
Fig. C The patient is checked for Translucence Enamel.
Fig. D Next, Blue Enamel color, shown here as BU-1 or Light is checked.
Fig. E The tooth is prepped and the stump color is photographed.
Fig. F A wax coping was created using Primotech’s Primopattern light curing gel.
Fig. G The wax coping and light was cured for 5 minutes.
Fig. H GC Initial One Body Porcelain, C-1, was layered with no enamel porcelain needed.
Fig. I After firing at 900° C, the enamel color can still be seen.
CASE STUDY

01 Pre-operatively, the base color is checked using three shade tabs for dentin color: A1, B2 and 4L (Fig. A).

02 Premolar occlusion color was then checked using the LSK Chair Side Shade Selection Guide and determined to be PO-5 or Milky Blue in color (Fig. B). To the author’s eye, it could be described as a “pink-blue” tone.

03 Next, Translucence Enamel was checked, and determined it to be #5 or Clear in color (Fig. C) and then for Blue Enamel color, shown here as BU-1, Light (Fig. D).

04 The tooth was prepped and the stump color photographed (Fig. E) with the adjacent tooth color also displayed. The blue tone will be mimicked due to the amalgam filling in premolar No. 6.

05 With Primotech’s Primopattern light curing gel (Fig. F), a wax coping was created and light cured for 5 minutes (Fig. G).

06 GC Initial One Body Porcelain, C-1, was layered on with no enamel porcelain needed (Fig. H).

07 After firing at 900º C, the enamel color is still visible (Fig. I).

08 After this application, the lustre paste was applied with initial IQ onto the One Body color (Fig. J).

09 Next, brown, gray and pink lustre pastes were mixed together (Fig. K) to create a stain that will, when applied to the crown (Fig. L), match the patient’s adjacent teeth.

10 The crown, when compared to the form of a natural tooth, is a duplicate (Fig. M).

11 The inside of the crown is displayed on top of the GC IQ One Body bottle (Fig. N) and then again post-cementation in the patient’s mouth (Fig. O).

ABOUT THE AUTHOR