

DENTSPLY

*Esthet•X HD
in Action*

ESTHET•X[®] HD

HIGH DEFINITION MICRO MATRIX RESTORATIVE

*Shade
Guide*

Class IV

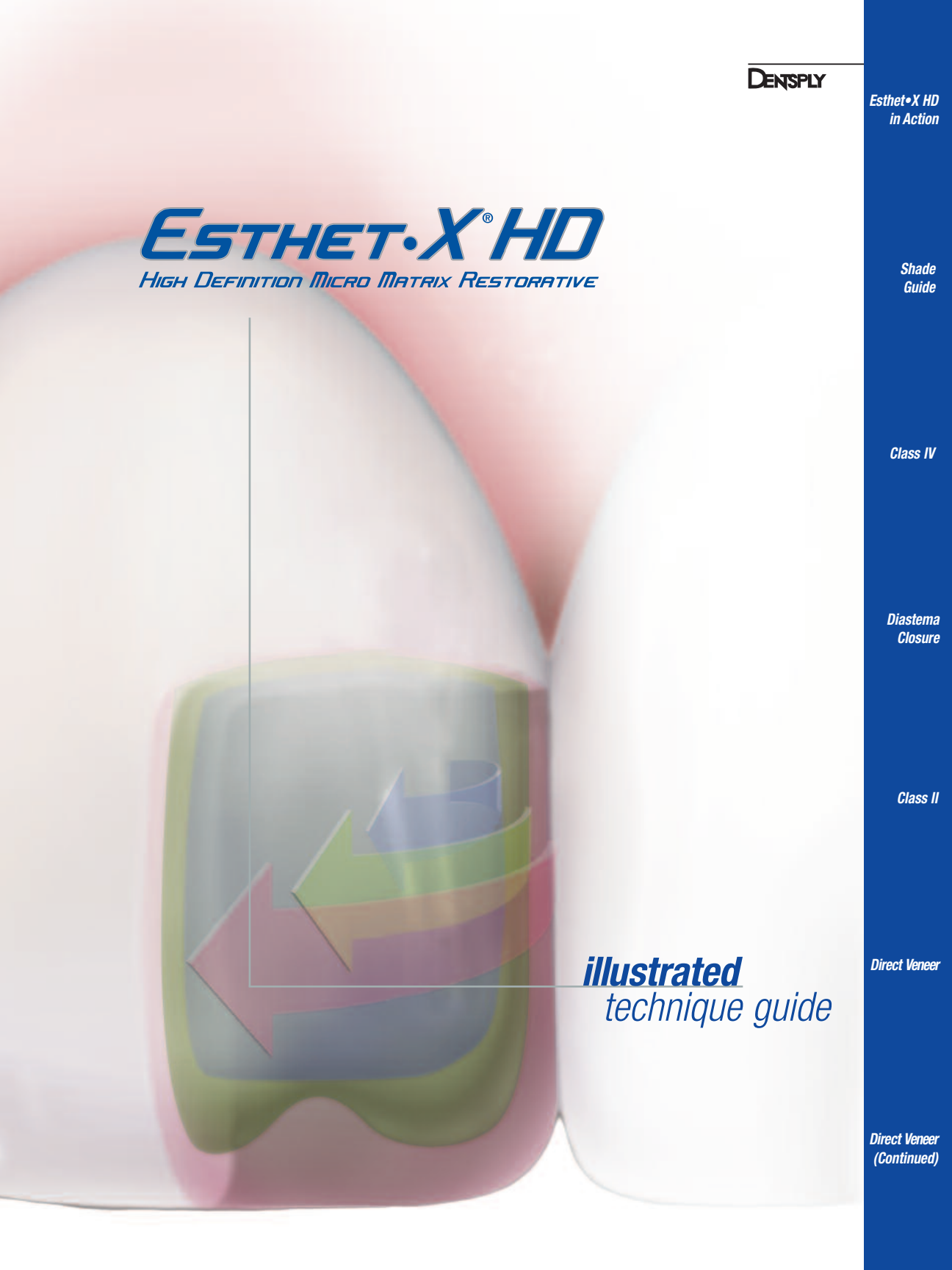
*Diastema
Closure*

Class II

Direct Veneer

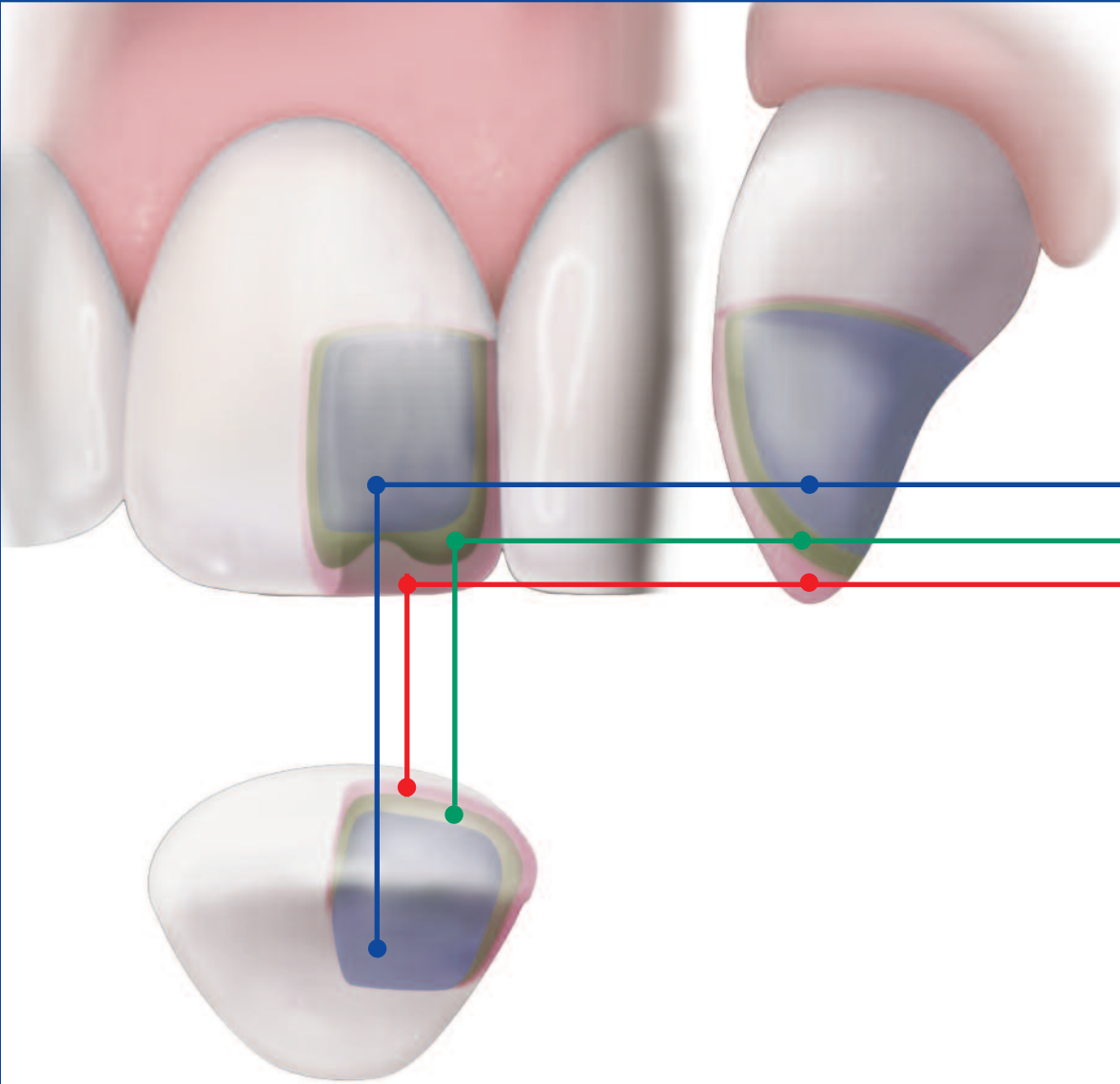
illustrated
technique guide

*Direct Veneer
(Continued)*



ESTHET·X[®] HD

HIGH DEFINITION MICRO MATRIX RESTORATIVE



Composition

The Esthet•X HD restorative “Micro Matrix” composition offers superior strength, durability, and fracture toughness through its patented resin matrix. This matrix is combined with a unique particle distribution that offers a durable, high surface luster commonly seen in traditional microfill materials.

Handling

Esthet•X HD Micro Matrix Restorative is a “sculptable,” non-sticky material that resists slumping and allows the operator to create precise anatomical form. When using Esthet•X HD restorative, it is best not to “spread” the material, but to “push” or “sculpt” the material.

Polishing

Esthet•X HD Micro Matrix Restorative was developed to provide the highest surface luster in order to replicate natural enamel. Esthet•X HD restorative maintains its luster over time¹. To achieve maximum polish, it is highly recommended to fully complete the polish of Esthet•X HD restorative by finishing the restoration with Enhance® Discs, Cups and Points and polishing with the PoGo® One Step Diamond Micro-Polisher System and/or Prisma®•Gloss™ Polishing Pastes.

Opacious Dentin Shades

Regular Body Shades

Translucent Enamel Shades

This group of very clear shades offers added vitality to your restorations by replicating the translucency of natural enamel.

CE/Clear Enamel
WE/White Enamel
YE/Yellow Enamel
AE/Amber Enamel
GE/Gray Enamel

The Regular Body Shades were developed to match the Vita® system. Very white and deep, dark shades were added to provide a full range of esthetic possibilities. Esthet•X HD Regular Body Shades are extremely “chameleon-like” and blend well with natural dentition. For restorations that require one layer, the Regular Body Shades are ideal.

W/White
XL/Extra Light
A1
A2
A3
A3.5
A4
B1
B2
B3
B5/Dark Yellow
C1
C2
C3
C4
C5/Extra Gray Brown
D2
D3
U/Universal

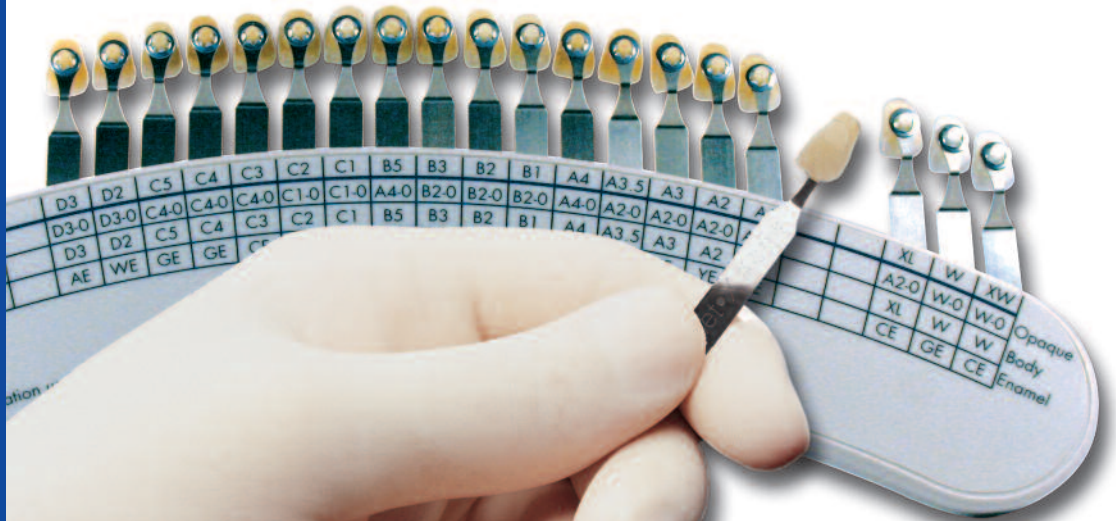
The Opacious Dentin Shades are designed to provide sufficient opacity to block out the darkness of the patient’s mouth or to effectively mask discolored dentition. The Opacious Dentin Shades are the foundation to large Class IV, wide Diastema Closures, and for veneering discolored dentition.

W-0
A2-0
A4-0
B2-0
C1-0
C4-0
D3-0

1. Data on file.

ESTHET-X[®] HD

HIGH DEFINITION MICRO MATRIX RESTORATIVE



Opacious Dentin Shades

Regular Body Shades

Translucent Enamel Shades





Esthet•X HD TruMatch® Shade Guide -

The Esthet•X HD TruMatch® Shade Guide is designed to allow the operator to “start with the end in mind” in order to create the most beautiful and natural restorations and smile reconstructions.

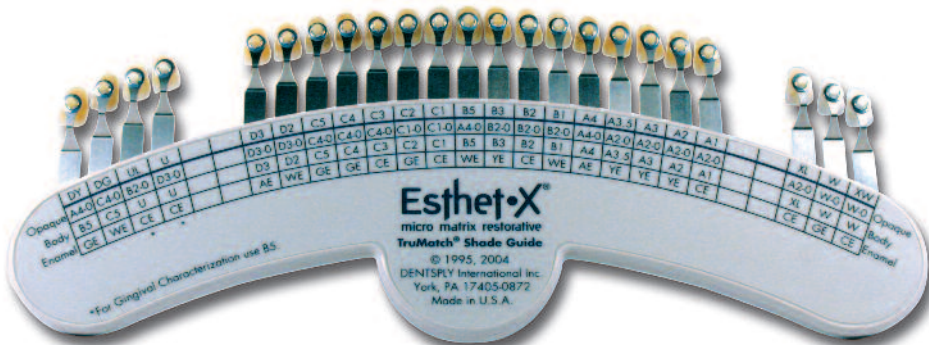
Each shade tab replicates the blending of Esthet•X HD Opacious Dentin Shades, Regular Body Shades and Translucent Enamel Shades. The Shade Guide tabs can be used like a cookbook with recipes. Choose the shade that best matches the patient's dentition and refer to the “recipe” on the back of the Shade Guide or on the shade tab. Now you can see what esthetic results are possible before you start the restoration.

The Esthet•X HD TruMatch® Shade Guide is designed to be versatile. If you are restoring small cavities that require less buildup, the shade tabs provide the operator with a guide to choose a regular “body” shade. If the patient's natural dentition is primarily A2, then the Esthet•X HD A2 Regular Body Shade will provide the best match. Esthet•X HD Regular Body Shades are chameleon-like and blend easily with surrounding tooth structure.

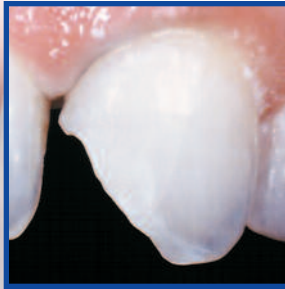
Before



After



Class IV



Before



After



The Class III procedure is similar to the Class IV procedure.



1. Shade Selection

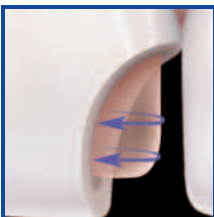
A. Select the shade tab from the Esthet•X HD TruMatch® Shade Guide that matches the patient's natural dentition. Refer to the back of the Shade Guide Holder or to the silver shade tab to review the composite selection ("recipe") used to create the shade tab. The Opacious Dentin Shades will block out the darkness of the mouth in a Class IV restoration. The Regular Body Shades will provide the lifelike translucence and color to the restoration. The Translucent Enamel Shades will create natural-looking incisal edges.

B. Create a beveled preparation, preserving the enamel at the gingival margin (30° to 45°, 3mm average).



2. Bonding

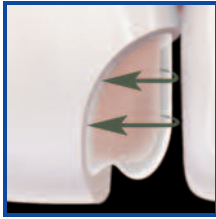
Apply a suitable dental adhesive to the preparation according to the manufacturers directions for use.



3. Application of the Opacious Dentin Layer

Apply the Opacious Dentin Shade increment (up to 2mm) in order to block any darkness from the patient's mouth. Feather material to the bevel.

Light cure for 20 seconds.



4. Application of the Regular Body Layer

Build up the body shade (up to 2mm) over the opacous foundation and reproduce the dentin mamelon form. The Esthet•X HD Regular Body Shades will restore the translucency and vitality of natural dentition. Feather the Esthet•X HD restorative onto the enamel level. **Light cure for 20 seconds.**



5. Application of the Translucent Enamel Layer

In order to fully replicate natural dentition, finish the buildup of Esthet•X HD restorative with the proper Translucent Enamel Shade (up to 2mm). Esthet•X HD restorative's ability to resist slumping makes it effective in creating the incisal anatomy. Feather the enamel shade over the beveled enamel and onto the labial surface. **Light cure for 20 seconds.**



6. Finishing

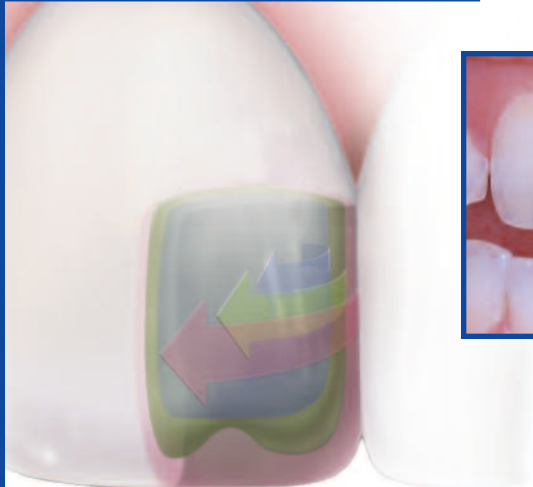
- A. Define the final anatomy with a multi-fluted finishing bur or a diamond finishing bur.
- B. Continue to finish with Enhance® Discs, Cups or Points. The aggressiveness of the Enhance® Disc is controlled by the pressure applied to the surface of the restoration. The greater the pressure, the more material is removed. Lighter pressure leaves a smooth surface.



7. Polishing

For a glass-like luster, polish the restoration with the PoGo® One Step Diamond Micro-Polisher System and/or Prisma®•Gloss™ Polishing Pastes.

Diastema Closure



Before



After



1. Shade Selection

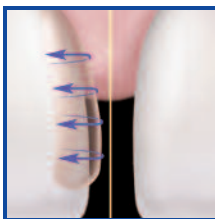
A. Select the shade tab from the Esthet•X HD TruMatch® Shade Guide that best replicates the patient's natural dentition. Refer to the back of the Shade Guide Holder or to the silver shade tab to review the "recipe" replicated in the shade tab. The Opacious Dentin Shade will block out the darkness of the mouth and create an effective foundation for the Diastema Closure. The Regular Body Shade will provide the lifelike translucence and color to the restoration. The Translucent Enamel Shade will effectively replicate enamel.

B. Determine the median line and its reference to the adjacent teeth. Pumice and wash the proximal surfaces of both teeth thoroughly (labial, mesial, lingual).
OPTION: Lightly roughen enamel with a fine diamond bur.



2. Bonding

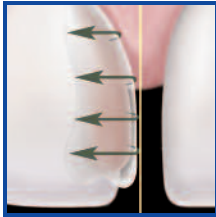
Apply a suitable dental adhesive to the preparation according to the manufacturers directions for use.



3. Application of the Opacious Dentin Layer

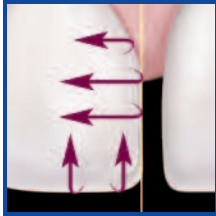
A. The Esthet•X HD restorative Opacious Dentin Shades were designed to block out the darkness of the mouth, usually necessary in diastema closures with wide proximal spaces. Apply the Opacious Dentin Shade increment (up to 2mm). **Light cure for 20 seconds.**

B. If the patient's dentition is more translucent and the proximal space is narrow, it is recommended to start with the Esthet•X HD Regular Body Shade designated on the Shade Guide.



4. Application of the Regular Body Layer

Build up the body shade (up to 2mm) over the opacious foundation or use the body shade to build the foundation if a more translucent result is desired. The Esthet•X HD Regular Body Shade will reproduce the translucency and vitality of natural dentition. Feather the Esthet•X restorative onto the prepared enamel. **Light cure for 20 seconds.**



5. Application of the Translucent Enamel Layer

In order to fully replicate natural dentition, finish the buildup of Esthet•X HD restorative with the proper Translucent Enamel Shade (up to 2mm). Esthet•X HD restorative's ability to resist slumping makes it effective in creating the incisal anatomy. Feather the enamel shade over the prepared enamel. Finalize the tooth form with the enamel shade. **Light cure for 20 seconds.**



6. Finishing

A. Define the final anatomy with a multi-fluted finishing bur or a diamond finishing bur.
B. Continue to finish with the Enhance® Discs, Cups or Points. The aggressiveness of the Enhance® Disc is controlled by the pressure applied to the surface of the restoration. The greater the pressure, the more material is removed. Lighter pressure leaves a smooth surface.

Now proceed to second tooth, starting with Step 2.



7. Polishing

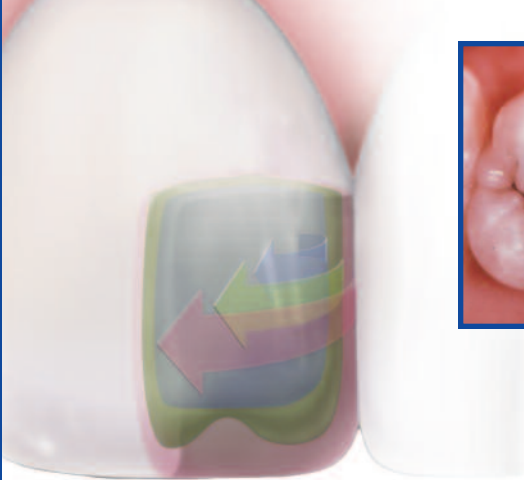
For a glass-like luster, polish the restoration with the PoGo® One Step Diamond Micro-Polisher System and/or Prisma®•Gloss™ Polishing Pastes.



Diastema Closure

Esthet•X HD Micro Matrix Restorative and its optimized particle distribution create an exceptionally "polishable" material.

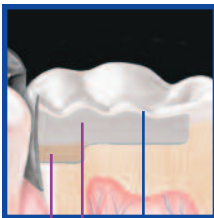
Class II



Before



After



Esthet-X® HD
Regular Body
or Opacious
Dentin Shades

Esthet-X® HD
Translucent
Enamel
Shades

1. Shade Selection

Select the shade tab from the Esthet-X HD TruMatch® Shade Guide that best replicates the patient's natural dentition. Refer to the back of the Shade Guide Holder or to the silver shade tab to review the "recipe" replicated in the shade tab. Opacious Dentin Shades block out the darkness of the mouth and create an effective foundation for the Class II restoration. Regular Body Shades provide lifelike translucence and color to the restoration. The Translucent Enamel Shade will effectively replicate enamel.



2. Preparation

The tooth is conventionally prepared and rinsed. Internal line and point angles should be rounded. No residual material should be left in the internal forms. Refine the cavosurface margins to enhance acid-etching, bonding and finishing.



3. Matrix Band Placement

A thin matrix band (i.e., Automatrix®) or a sectional matrix system (i.e., Palodent® – see illustration) is placed to facilitate optimal proximal contact.



4. Bonding

Apply a suitable dental adhesive to the preparation according to the manufacturers directions for use.



5. OPTIONAL Flowable Liner Layer

A. Place a 0.5 – 1mm layer of either Esthet•X[®]flow or TPH[®]3 *flow* Liquid Hybrid Material or Dyract[®]*flow* Compomer. These materials are indicated for a Class II liner.



Esthet•Xflow Liquid Hybrid Material offers low shrinkage and non-slump handling.



Dyractflow Compomer Material offers a light-bodied handling, sustained fluoride release and low net shrinkage.

B. For the Class II liner indication, all shades should be light cured for **40 seconds**.



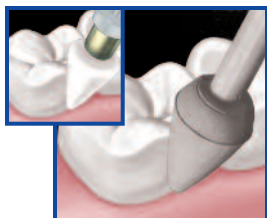
6. Esthet•X Opacious and/or Body Enamel

Place in increments, up to 2mm, with Esthet•X HD Restorative Body or Opacious Shade, **light curing each increment 20 seconds**. Fill to the dentin-enamel junction.



7. Esthet•X Translucent Enamel

The Esthet•X HD Translucent Enamel Shade is the enamel replacement in the restoration. Place the final layer (up to 2mm) of Esthet•X HD restorative and sculpt to contour. **Light cure for 20 seconds**.



8. Finishing

Define the final anatomy with a multi-fluted bur or a diamond finishing bur. Continue to finish with the Enhance[®] Discs, Cups or Points. The aggressiveness of the Enhance[®] Disc is controlled by the pressure applied to the surface of the restoration.

9. Polishing

For a glass-like luster, polish the restoration with PoGo[®] One Step Diamond Micro-Polishing Discs, Cups or Points and/or Prisma[®]•Gloss™ Polishing Pastes.

Direct Veneer



Before

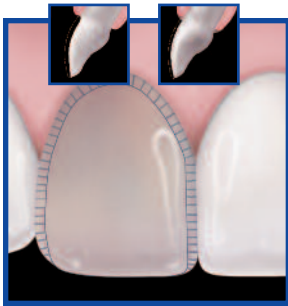


After



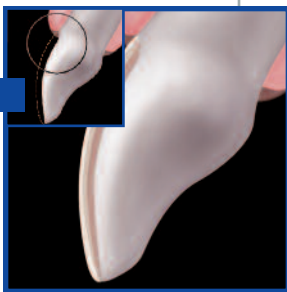
1. Shade Selection

Select the shade tab from the Esthet•X HD TruMatch® Shade Guide that best represents the final desired shade. Refer to the back of the Shade Guide Holder to review the “recipe” replicated in the shade tab. The Opacious Dentin Shade will block out the darkness of the discolored tooth and provide a color foundation to the restoration. The Regular Body Shade will provide the lifelike translucence and color to the restoration. The Translucent Enamel Shade will effectively replicate enamel translucence and the incisal edge.



2. Preparation

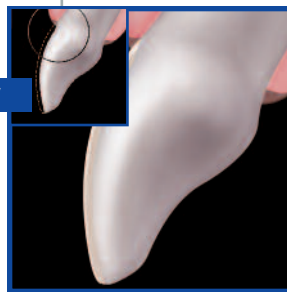
If the discoloration on the dentition is caused by an old restoration, remove the old restorative with a bur. Prepare the tooth by removing a thin layer of enamel, finishing the margin with a chamfered or beveled edge. The preparation should preserve as much enamel as possible.



3-Layer

2A. Discolored Tooth – 3-Layer Technique

In severely discolored dentition, prepare the tooth to a depth of at least .75mm in anticipation of the 3-Layered technique that will utilize the masking benefits of the Esthet•X HD Opacious Dentin Shades. Preserve as much enamel as possible.



2-Layer

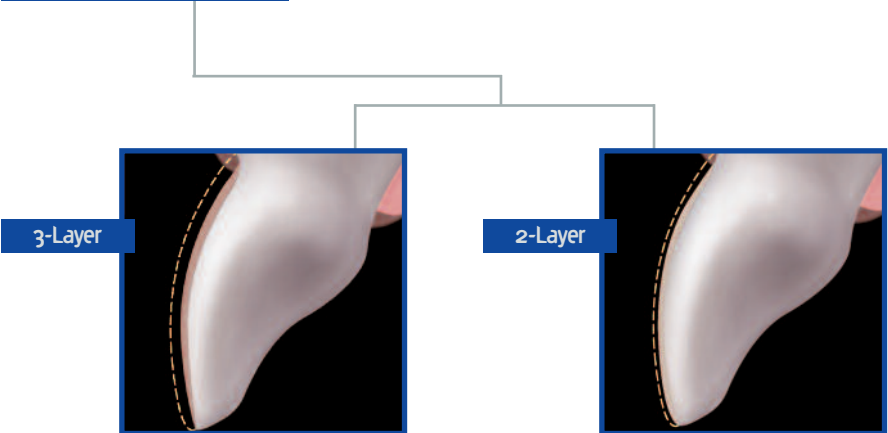
2B. Non-Discolored Tooth – 2-Layer Technique

Non-discolored dentition will not require an opaquing/masking layer. Prepare the tooth to a depth of .5mm in anticipation of using 2 layers of Esthet•X HD restorative (Regular Body Shades and Translucent Enamel Shades).

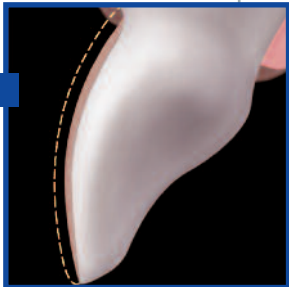


3. Bonding

Apply a suitable dental adhesive to the preparation according to the manufacturers directions for use.



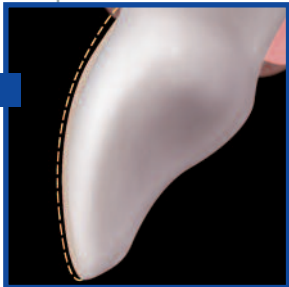
3-Layer



3A. Application of Esthet•X Opacious Dentin Shade

3-Layer Technique:
Apply a thin layer of Esthet•X HD Opacious Dentin Shade and feather to the incisal edge.
Light cure for 20 seconds.
Continue to step 4B.

2-Layer



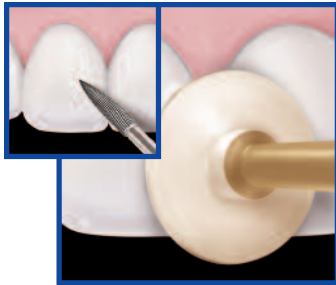
3B. Application of Esthet•X Regular Body Shade

2-Layer Technique:
Place a layer of the Esthet•X HD Regular Body Shade and feather to the incisal edge.
Light cure for 20 seconds.



4. Application of Esthet•X HD Translucent Enamel Shade

Complete either the 3-Layer or the 2-Layer Technique with the final layer of Esthet•X HD Translucent Enamel. Feather completely around the incisal edge. **Light cure for 20 seconds.**



5. Finishing

- A. Define the final anatomy with a multi-fluted finishing bur or a diamond finishing bur.
- B. Continue to finish with the Enhance® Discs, Cups or Points. The aggressiveness of the Enhance® Disc is controlled by the pressure applied to the surface of the restoration. The greater the pressure, the more material is removed. Lighter pressure leaves a smooth surface.



6. Polishing

Esthet•X HD Micro Matrix Restorative was developed to produce the highest surface luster in order to replicate natural enamel. For a glass-like luster, polish the restoration with the PoGo® One Step Diamond Micro-Polisher System and/or Prisma®•Gloss™ Polishing Pastes.

630604 Compules[®] Tips Operator Kit

- 20 Compules[®] Tips (0.25g each)
5 each shade: A1, A2, A2-0, YE
- 1 Compules[®] Tips Gun
- Esthet•X[®] HD Shade Tab – A2
- Enhance[®] Finishers Sample
- PoGo[®] Polishers Sample

630600 Compules[®] Tips Complete Kit

- 156 Compules[®] tips (.25g each)
3 each shade: AE, GE, A4, B5/DY, C4, D3, W0, A4-0, B2-0, C1-0, C4-0, D3-0
- 5 each shade: CE, WE, YE, W, XL, B1, B2, B3, C1, C2, C3, C5/XGB, D2, U
- 10 each shade: A1, A2, A3, A3.5, A2-0
- 1 Esthet•X[®] HD TruMatch[®] Shade Guide
- 1 Compules[®] Gun
- 10 Prime&Bond[®] NT[™] Unit Doses and 1 Unit Dose Holder
- 1 Syringe Esthet•X[®] flow and 15 Syringe Tips
- 1 Syringe Caulk[®] 34% Tooth Conditioner Gel and 25 Applicator Tips
- 50 Flocked Applicator Tips
- Enhance[®] Finishers: 5 Cups, 5 Points, 10 Discs
- PoGo[®] Micro-Polishers: 5 Cups, 5 Points, 10 Discs

630601 Compules[®] Tips Introductory Kit

- 60 Compules[®] tips (.25g each)
5 each shade: CE, YE
10 each shade: A1, A2, A3, A3.5, A2-0
- 1 Esthet•X[®] HD TruMatch[®] Shade Guide
- 1 Compules[®] Gun
- 10 Prime&Bond[®] NT[™] Unit Doses and 1 Unit Dose Holder
- 1 Syringe Esthet•X[®] flow and 15 Syringe Tips
- 1 Syringe Caulk[®] 34% Tooth Conditioner Gel and 25 Applicator Tips
- 50 Flocked Applicator Tips
- Enhance[®] Finishers: 1 Cups, 1 Points, 1 Discs
- PoGo[®] Micro-Polishers: 1 Cup, 1 Point, 1 Disc
- 1 Palodent[®] BiTine[®] Round Ring and 5 Standard Matrices

630711 Easy•Twist Syringe Complete Kit

- 31 Syringes (3g each)
1 each shade: CE, WE, XL, A1, A2, A3, A3.5, A4, B1, B2, B3, B5/DY, C1, C2, C3, C4, C5/XGB, D2, D3, U, YE, AE, GE, W0, A2-0, A4-0, B2-0, C1-0, C4-0, D3-0

630714 Easy•Twist Syringe Introductory Kit

- 5 Syringes (3g each)
1 each shade: A2, A3, A3.5, CE, A2-0
- 5 Prime&Bond[®] NT[™] Unit Doses and 1 Unit Dose Holder
- 1 Syringe Caulk[®] 34% Tooth Conditioner Gel and 25 Applicator Tips
- 50 Flocked Applicator Tips
- Enhance[®] Finishers: 3 Cups, 3 Points, 3 Discs
- 1 Palodent[®] BiTine[®] Round Ring and 5 Standard Matrices

Compules[®] Tips Refills (.25g each)

10 COUNT REFILL

Shade	Reorder #
CE (Clear Enamel)	630610
WE (White Enamel)	630611
YE (Yellow Enamel)	630612
AE (Amber Enamel)	630613
GE (Gray Enamel)	630614
XL (Extra Light)	630616
A4	630621
B3	630624
B5/DY	630625
C1	630626
C3	630628
C4	630629
C5/XGB	630630
D2	630631
D3	630632
W-0 (White Opaque)	630634
A2-0 (A2 Opaque)	630635
A4-0 (A4 Opaque)	630636
B2-0 (B2 Opaque)	630637
C1-0 (C1 Opaque)	630638
C4-0 (C4 Opaque)	630639
D3-0 (D3 Opaque)	630640

20 COUNT REFILL

W (White)	630615
A1	630617
A2	630618
A3	630619
A3.5	630620
B1	630622
B2	630623
C2	630627
U (Universal)	630633

Easy•Twist Syringe Refills (3g each)

Shade	Reorder #
CE (Clear Enamel)	630650
WE (White Enamel)	630651
YE (Yellow Enamel)	630652
AE (Amber Enamel)	630653
GE (Gray Enamel)	630654
W (White)	630655
XL (Extra Light)	630656
A1	630657
A2	630658
A3	630659
A3.5	630660
A4	630661
B1	630662
B2	630663
B3	630664
B5/DY	630665
C1	630666
C2	630667
C3	630668
C4	630669
C5/XGB	630670
D2	630671
D3	630672
U (Universal)	630673
W-0 (White Opaque)	630674
A2-0 (A2 Opaque)	630675
A4-0 (A4 Opaque)	630676
B2-0 (B2 Opaque)	630677
C1-0 (C1 Opaque)	630678
C4-0 (C4 Opaque)	630679
D3-0 (D3 Opaque)	630680

FINISHING AND POLISHING

Enhance[®] Refills

40 Finishing Discs	624045
40 Finishing Cups	624055
40 Finishing Points	624065

PoGo[®] Refill Packages

40 Diamond Polishing Discs	662010
40 Diamond Polishing Cups	662023
40 Diamond Polishing Points	662022

Prisma[®]•Gloss[™] Refills

1 Syringe Polishing Paste (4g)	631400
1 Syringe Extrafine Polishing Paste (4g)	631450
100 Polishing Cups & 1 Metal Mandrel	624020



DENTSPLY Caulk
38 West Clarke Avenue
Milford, DE 19963
www.dentsply.com / www.dentsply.de
1-800-LD-CAULK / 1-302-422-4511
In Canada, call 1-800-263-1437

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