anax | USA

Bonding & Finishing Protocol: anaxcam: The Show Over Metal Bar

1) Opaque and Rescan the Bar:

Though anaxcam: The Show is designed with greater opacity in the dentin layers of the disc to mask the color of the metal, it is recommended to apply 1 or 2 layers of anaxblend Opaquer Paste to the metal bar, then rescan the opaqued bar and finalize the PMMA design to fit.

- Roughen the surface to which you will bond the composite by sandblasting with 50-110 micron aluminum oxide at 2-3 bar pressure.
- Clean the metal frame with steam, then dry with oil-free air.
- Once the surface is COMPLETELY dry, generously apply anaxblend Metal Bonder to the metal frame on any surface to which you will apply the opaquer.
- Allow Metal Bonder to air dry for 30 seconds. Do not touch the surface after the Metal Bonder is applied, this will cause contamination.
- Apply the first layer of anaxblend or anaxgum opaquer gently and as thin as possible. Flat opaquer brushes work best for even layer thickness. IMPORTANT: If metal surface primed with Metal Bonder dries longer than 5 minutes before you apply the first layer of opaquer, reapply Metal Bonder.
- Light-cure the first layer of opaquer.
 - Full-Spectrum (350 500nm) Benchtop LED lights: 3-5 minutes without Cover Gel
 - Otoflash: 300 400 flashes without nitrogen
- Apply and cure (using the curing recommendations above) 1 or 2 additional layers of opaquer until the desired opaquing is achieved. Additional layers of opaquer do not need to be as thin as the foundation layer.
- Once opaquing is complete, rescan the opaqued bar and adjust the PMMA design to fit to the bar with .04mm .08mm cement gap.

2) Prime the PMMA and Cement to the Bar:

- Roughen the internal surface of the PMMA AND the gingiva area of the PMMA by sandblasting with 50-110 micron aluminum oxide at 2-3 bar pressure.
- Clean the PMMA with steam, then dry with oil-free air.
- Once the surface is COMPLETELY dry, apply a VERY THIN layer of anaxblend Bond LC to the internal surface of the PMMA with a new, clean microbrush in a scrubbing motion. The primed surface should appear slightly glossy, not wet. A wet appearance signifies excess application, and a new, clean, dry microbrush should be used to remove excess Bond LC prior to light-curing the bonder.
- Light-cure Bond LC and DO NOT touch the primed surface after curing:
 - Full-Spectrum (350 500nm) Benchtop LED lights: 60 90 seconds without Cover Gel
 - **Otoflash:** 100 150 flashes without nitrogen

- Brush translucent dual-cure or auto-cure resin cement onto the surface of the opaqued bar and the internal surface of the PMMA.
- Firmly seat the PMMA onto the frame and verify proper seating of the PMMA on the bar by articulating against the opposing arch.
- Once position is verified, follow the cement manufacturer's instructions to fully cure cement.

3) Prime the PMMA for Composite / Glaze Application:

- Since the gingiva surface was sandblasted in the previous step, no additional surface roughening is necessary on the gingiva.
- If Vita Azkent LC Stains and Glaze are planned on the teeth, lightly sandblast the teeth with 50 micron aluminum oxide at 1 bar pressure. Then clean the PMMA with steam and dry completely with oil-free air.
- Once the PMMA surface is completely clean and dry, use a new, clean microbrush to apply a VERY THIN layer of anaxblend Bond LC to the gingiva surface, including the cervical area of the teeth and any interproximal surface of the teeth to which composite will be applied. Apply the Bond LC in a scrubbing motion. Even prior to curing the Bond LC, the primed surface should appear slightly glossy, not wet. A wet appearance signifies excess application, and a new, clean, dry microbrush should be used to remove excess Bond LC prior to light-curing the bonder.
- Light-cure Bond LC:
 - Full-Spectrum (350 500nm) Benchtop LED lights: 60 90 seconds without Cover Gel
 - **Otoflash:** 100 150 flashes without nitrogen

4) Apply composite to gingiva and cervical areas:

- Apply anaxgum Paints and anaxblend Colors S Stains as desired and light cure your first layer:
 - Benchtop LED Units: 3 minutes without Cover Gel
 - Otoflash: 400 flashes without nitrogen
- Apply anaxgum Gingiva Pastes or Flows over your first cured layer. Do not exceed 2mm of composite thickness per layer, since layers thicker than 2mm can crack during curing.
- Light cure composite:
 - If this **WILL NOT be your final layer**, light cure as follows:
 - Full-Spectrum (350 500nm) Benchtop LED lights: 3 minutes without Cover Gel
 - Otoflash: 400 flashes without nitrogen
 - If this WILL be your final layer, light cure as follows:
 - Full-Spectrum (350 500nm) Benchtop LED lights: 3 minutes without Cover Gel
 - Generously apply Cover Gel to entire composite surface
 - Cure again for 5 minutes
 - Clean the Cover Gel completely using warm water, Dawn soap and a toothbrush
 - Otoflash WITH Nitrogen: 500 flashes WITH nitrogen

Otoflash WITHOUT Nitrogen:

- 400 flashes without Cover Gel
- Generously apply Cover Gel to entire composite surface
- Cure again for 500 flashes
- Clean the Cover Gel completely using warm water, Dawn soap and a toothbrush

5) OPTIONAL: Stain and Glaze Teeth with Vita Akzent:

- Clean surface of teeth with isopropyl alcohol and allow to dry completely
- Apply Vita Akzent LC stains to enhance cervical chroma or incisal effects
- Light Cure Vita Akzent LC stains:
 - Full-Spectrum (350 500nm) Benchtop LED lights: 5 minutes without Cover Gel
 - **Otoflash:** 900 flashes with nitrogen. Flip bridge over, the repeat 900 flashes with nitrogen
- Repeat with additional stains if necessary, until desired esthetic is acheived