

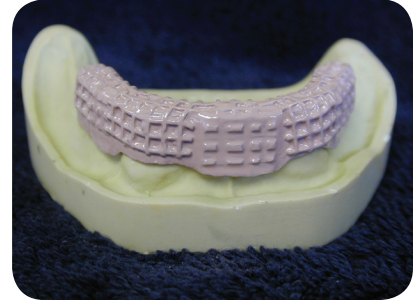
# YTZP Zirconia Ball Attachment: Instructions for Overcasting Fabrication

Overcastings are modified removable partial denture frames used as secondary structures over implant bars to strengthen and stabilize implant bar supported overdentures.

*Resin Overlay Technique* – (No duplication or refractory model required) a technique for fabricating overcastings using Pikuplast Modeling Resin from Bredent to make a “lift off” type pattern which is cast in a conventional crown & bridge style.

The benefits of an overcasting frame are:

- Provides a stable base for the overdenture
- Keeps the attachments stress-free
- Strengthens “horseshoe” shaped over-dentures
- Provides metal housings for plastic attachment components
- Promotes an increased lifespan for bar retained overdentures
- Increases “value added” factor to implant supported removable prosthetics



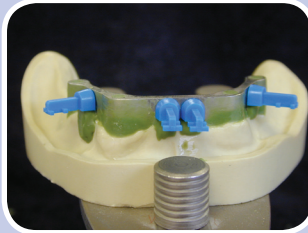
**YTZP Zirconia Ball**  
Bond-In Attachment System

**Step 1**

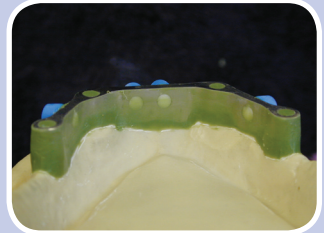
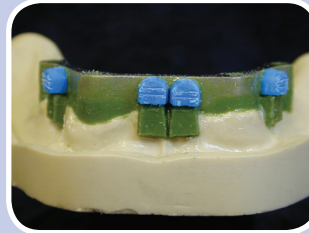


Snap the VKS-SG green matrices (#43005410) onto the ball patrics.

**Step 2**

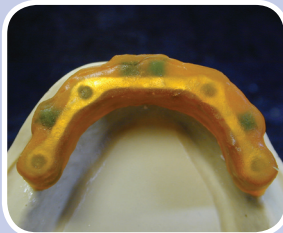


Place the 2.2 Castable SG Matrix Housings on the green matrices. *Tip: Use the retention tails on the castable housings for easier handling.*



Cut-off the retention tails as needed and cut-in some retention grooves. Block-out the undercuts using Splendibo Hard C&B wax (#51000590). Paint a light coat of Vaseline onto the block-out wax to facilitate its removal from Pikuplast modeling resin after it has set. *Tip: Lightly sandblast the outside of the plastic housings to improve their adherence to Pikuplast modeling resin.*

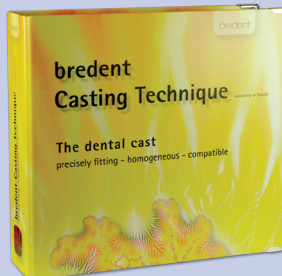
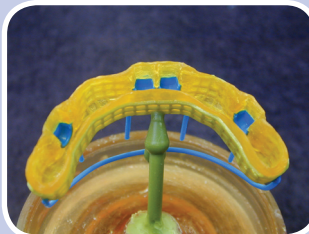
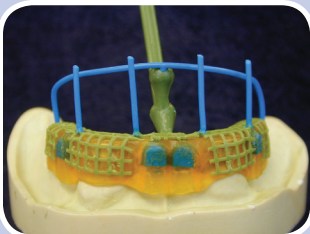
**Step 3**



Apply Pikuplast Modeling Resin (Orange #54000212) over the blocked-out bar and plastic castable housings.

After setting, remove Pikuplast pattern from the bar. Grind and adjust using carbides, rubber wheels, etc, etc. Ideal thickness for the pattern is 0.3mm in most areas. Inspect the inside of the overcasting pattern and remove any debris if necessary.

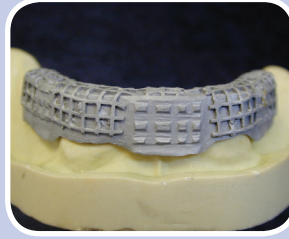
**Step 4**



Add mechanical retention such as mesh pattern turned upside down or you may also use Bredent Retention Crystals (0.5mm #53000500) and adhesive (#54000711).

Attach sprues following the Bredent Casting Technique according to Sabath (#992961GB). Invest the overcasting pattern using a fine grain investment and follow the manufacturer's instructions for mixing.

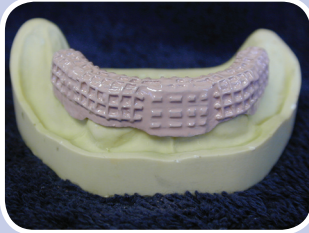
Step 5



Cast as usual. Now selectively grind the inside of the overframe until a snug fit is achieved and then sandblast the outer surface.

*Tip: Paint Colloidal Graphite (#54000706) on the implant bar to use as high-spot indicator within the overcasting framework for easier seating/fitting.*

Step 6



Use Ropak light curing pink opaquer (Ropak liquid #52000164; Ropak powder #52000165) to mask out the grey, metallic color of the overcasting. Install the 2.2mm SG green matrices.