

**A Brand Division of American Tooth Industries**

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Instructions for Use and Care of Hardened Plastic Teeth

OUR EXPERIENCE:

“Quality teeth for the American market...backed by over 100 years of experience.”

OUR QUALITY:

The quality of our teeth is unsurpassed and we invite you to use them with the confidence and knowledge that you are using the finest premium product available. Justi Hardened Plastic teeth comply with ISO #22112:2005 and ANSI/ADA specification #15 published in 1999, identical to ISO 3336/1993.

OUR TEETH:

We manufacture wear resistant, laminated, cross-linked, fluorescent, vacuum processed, hardened plastic teeth.

I. METHODS TO FOLLOW DURING THE REPAIRING AND HEAT PROCESSES.

To maintain the integrity of plastic teeth several steps should be adhered to in the preparation of the wax-up and flasking:

- A. Brush flame the wax-up with caution. Avoid pinpoint flame directly against the teeth. High intensity heat can scorch the surface of the hardened plastic teeth.
- B. After the wax-up has been completed, all traces of wax must be removed from the exposed surface of the teeth. We recommend the surface of the teeth be cleaned with [Justi Wax Solvent #20](#) prior to investing. Any trace of wax left on the surface of the teeth will result in a fine crevice between the investment and plastic teeth once the case has been boiled out. When packing the case with the denture base resin, some excess monomer could squeeze into the crevice, contaminating the investment. This is the principal reason of dulling teeth and difficulty polishing plastic teeth. The time spent in thoroughly cleaning the teeth before the investment is well rewarded.
- C. This method also applies to the repairing of hardened plastic teeth by the heat method or when using the autopolymerizing process or quick cure materials. Freshen up the surface of the teeth by grinding with a bur after careful wax removal when using cold cure materials. This step will ensure a good bond to the autopolymerizing materials. (Pozzi carbide burs, as well as silicone rubber abrasives, are recommended for the grinding and finishing of Justi hardened plastic teeth.)

2. METHODS FOR OPTIMUM BONDING BETWEEN THE TEETH AND THE DENTURE BASE MATERIAL.

IMPORTANT: With the use of methyl methacrylate denture base materials, our teeth do NOT need mechanical retention or adhesives for maximum bondability.

- A. After the wax-up has been invested in a metal flask or fiber reinforced plastic flask (such as the [Justi Miracleflask](#)) the wax is eliminated. Warming the metal flask for four minutes in boiling water, or in the [Justi Miracleflask](#) for one minute in a microwave oven, the bulk of the wax is removed. Both halves of the flask are flushed with a boiling detergent solution to ensure complete wax removal.

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Brush the entire surface of the investment and teeth with **Justi Wax Solvent # 20**, then flush with clean boiling water.

- B. After the flask and denture material has been prepared according to the manufacturer's specification, the material should be placed in the flask at the wet dough stage. This allows the monomer to penetrate the surface of the teeth and flow into all crevices of the mold. A heavy dough material in the closed flask will have a chemical bond to our plastic teeth, whether cured by heat process with a water bath, dry heat or microwave.
- C. When using cold cure autopolymerizing resins use the same method as as noted in step 1C for preparation of teeth.
- D. When using vinyl-type materials it is recommended that the teeth be grounded on the back and roughened with an abrasive stone, so it will have a mechanical retention since the material does not have the bonding qualities of acrylic.
- E. The copolymer-type of base materials bond well with Justi hardened plastic teeth.

3. METHODS AND MATERIALS RECOMMENDED FOR GRINDING AND POLISHING THE TEETH.

- A. After the denture has been cured and removed from the flask and investment, any residue that remains on the teeth or along the neck must be removed. Use a wheel-shaped Abbott prophylaxis brush impregnated with **Justi Milling and Polishing Cream**. The Justi Milling and Polishing Cream is found to be most useful for this process. The lubricant base practically eliminates the possibility of brush burning Justi hardened plastic teeth.
- B. When polishing Justi hardened plastic teeth use a #20 wheel brush with fine flour pumice at a low speed (1750 RPM) using a light touch.
- C. Shine with a new #20 brush. Use a cake or liquid shining medium.
- D. Buff the teeth lightly with a clean, dry rag wheel to bring up the final luster.
- E. Spot grinding and milling of plastic teeth can be done with fine carborundum wheels, stones, or with Pozzi carbide burs.
- F. Surface incisal or occlusal milling can be done with Justi Milling and Polishing Cream. This abrasive cream was specially formulated for milling and finishing hardened plastic teeth.
- G. Using a #29 brush wheel, impregnated with Justi Milling and Polishing Cream, can restore final surface polishing of the teeth after grinding. Use a hi-shine polishing compound and rag wheel to grind the incisal and occlusal surface back to its original full luster.
- H. Justi Milling and Polishing Cream may be also used for polishing the denture base.

American Tooth Industries can supply your needs for all types of diamonds, abrasives and carbide burs along with Justi Denture Base Material and Justi Miracleflask.
For additional technical or product information, write, e-mail or call:



Justi Products

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