



**A Brand Division of American Tooth Industries**

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## Instruction Sheet

### IMPAK Powder and Liquid

# IMPAK

## MOUTHGUARD/ SPORTS APPLIANCES PROCESSING TECHNIQUE

*AN ELASTIC RESIN FOR THE PROTECTION OF TEETH  
IN CONTACT SPORTS*

### **Powder to Liquid Ratio 3:1 by Volume**

**Important:** The addition of more liquid to the IMPAK mix makes the cured appliance softer and more pliable (less liquid will make it stiffer). The operator may wish to vary the proportion of powder to liquid in order to obtain the softness or stiffness desired. Similarly, the bulkiness of the protector or the size of the mouth may require a larger total mix than indicated. These variations have to be arrived at according to the individual case and in no way will alter the effectiveness of the product.

**Note:** If the appliance is too soft, some support will be sacrificed. The IMPAK protector is always considerably Softer at mouth temperature than it might feel in the Hand.

### **REQUIREMENTS FROM THE DENTIST**

1. Take an upper impression with the material of choice. Alginate, rubber base, or hydrocolloid is recommended. Include as much of the peripheral border as possible and muscle trim. Pour immediately in stone after removal from the mouth.
2. Take a lower impression.
3. A wax bite is usually not necessary as sufficient teeth will be present to hand articulate the models.
4. If the patient is wearing a partial denture and desires to wear the appliance and the denture at the same time, take the impressions with the denture in position.

### **LABORATORY PROCEDURE**

1. Duplicate the upper model.
2. Articulate the duplicate upper model and lower cast.
3. Open the bite on the articulator 2 to 3 mm in the anterior region.
4. Wax-up the IMPAK appliance employing a horse-shoe design in the vault area. The peripheral border should have approximately a 1/8 inch roll. The remainder of the wax-up may be this thick, or less if desired. The vault area may be waxed thin as this part does not directly absorb shock. The wax-up should include all the upper teeth and the impression of the lower teeth to ensure the finished appliance will articulate properly in the mouth



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- Invest in the usual manner.
- Boil out.
- Apply tinfoil substitute as usual. Any cloudiness caused by foil substitute will disappear in 24 hours.
- Mix the powder and liquid in a volume proportion of 2 to 1. Pour the powder into the liquid and stir lightly just enough to be sure all the powder is wet. When the mixture is no longer pourable, it may be transferred to the flask. Trial pack. When the mold is filled, close and transfer to a rigid clamp or press.
- Cure for a minimum of five (5) hours at 165°F. If a shorter processing time is desired, one (1) hour 30 min at 165°F and then 30 min at boiling.
- Keep the appliance cool at all times while finishing and polishing. Sandpaper lightly to finish. Polish with a light rapid motion, using plenty of wet pumice.
- Do not put appliance in sealed bag. The material needs 24-48 hours to become clear. It takes longer time to become clear if the appliance is sealed in an airtight container.



**WARNING – Flammable liquid and vapor.**

May cause eye and skin irritation. Harmful if absorbed through the skin. Inhalation of vapors and mist may cause respirator irritation and central nervous systems effects. Use with adequate ventilation.

- This product is used for fabricating mouthguard/ sports appliances.
- IMPAK is intended for use by dentist and trained dental technicians.
- Do not use if patient is known to be allergic to any components of the IMPAK.
- Thoroughly clean the denture with a denture brush. Use of toothpaste, instead of denture cleanser can result in premature wear. Patients who sleep with their denture and grind their teeth can cause premature wear. Some appliances may have sharp edges when fabricating.
- It is recommended that prior to insertion, a dental acrylic appliance should be stored and shipped in aqueous solutions and ultrasonically cleaned in 6 oz. (177ml) of water for three minutes.
- DO NOT store a finished dental acrylic appliance above 145°F (63°C)

For additional questions or to place an order, please call American Tooth Industries order desk at (805) 487-9868.

Rx only