

IMMEDIATE & UNIVERSAL



the **Multifunctional Appliance**

- **Orthodontic Retainer**
- **Sports Mouthguard**
- **Occlusal Splint**
- **Habit re-trainer**
- **Bleaching Tray**

- **Fitted in 2 mins**
- **No Impressions**
- **Remouldable**
- **Single size fits all**



**Patented Dual
Molding Construction**

by



MYOFUNCTIONAL RESEARCH CO.

- designers and manufacturers of innovative dental appliances -

www.myoresearch.com



the Multifunctional Appliance

The T4U™ is an immediate multifunctional appliance. It has been computer designed and constructed with new patented dual layer technology.

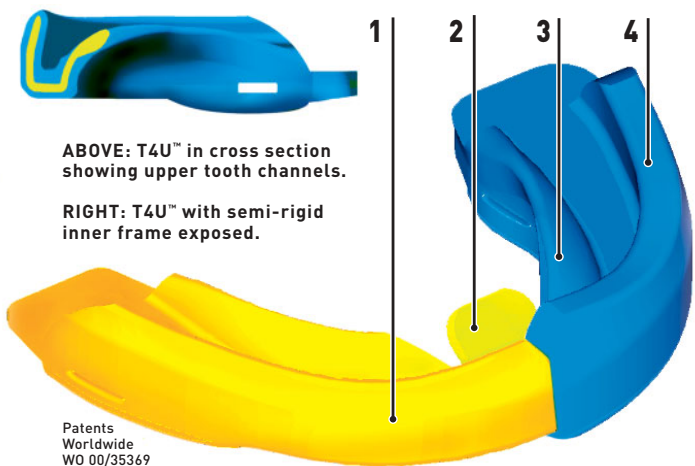
This allows it to be fitted like a boil and bite mouthguard, but with the retention and fit of a vacuum formed retainer.

The T4U™ incorporates a thicker section over the molar area to allow for a customised mandibular relationship.

When heated in boiling water the harder polyurethane inner material maintains the arch form while the EVA material softens to customise to the dental form.

Unique Design Features of T4U™

The T4U™ multifunctional appliance is constructed of two distinct parts and provides the same quality fit as vacuum formed retainers without the time consuming need for impressions.



1. Semi-rigid Polyurethane frame maintains shape and all design features during customisation.
2. Tongue positioning tag retrains tongue.
3. Tongue guard prevents tongue thrusting.
4. Thermoplastic outer material provides the convenience of "boil and bite" customised fit (regularly remouldable if adjustment is needed).

CAN BE USED DURING THE DAY AND OVERNIGHT WHILE SLEEPING



Fitting Instructions

The T4U™ is a SEMI-MOULDABLE multi-functional appliance. It has many potential uses in the Dental and Orthodontic Practice. Like any new appliance it will take a little time to become familiar with its fitting and use.

IMPORTANT: The T4U™ must be fully heated for the customisation procedure to be successful.

- **Using freshly boiled water.** Immediately place the T4U™ in boiled water (100°C) for 1-2 minutes.
- **Using boiling water on a stove.** Immediately place the T4U™ in boiling water (100°C) for 30 - 45 seconds.
- **Using a microwave oven.** Heat water in the microwave till boiling (approx. 2 minutes). Place the T4U™ in the hot water (100°C) for 1-2 minutes.

Immediately remove from the water holding T4U™ by the tongue tag with tweezers. Dip the T4U™ in cool tap water for **less than one second** only. Then without delay hold at distal end to prevent "fingerprinting" outer surface. Pre-adjust arch width approximately to the patient's inter-molar width by pushing in at the distal ends. Place into the patient's mouth, tongue tag up.

The T4U™ should be placed in the upper arch first with the centreline mark corresponding to the dental centreline. Fully seat the T4U™ in the upper arch with firm pressure upwards at the premolar area (just like taking an impression). Mould upper periphery by pushing in the labial surface. Instruct the patient to place the tongue against the tongue tag and "suck in" strongly.

Once fully seated in the upper arch, have the patient bring the mandible forward into the desired bite, and bite hard in this correct position. Note if minimal lower occlusion is required, allow the lower surface to cool before the bite stage. Ensure the upper arch is still fully seated. Instruct the patient to hold biting pressure for 20 seconds.

This entire procedure should take no more than 2 minutes.

A poor fit can result if this fitting procedure is too slow as the thermoplastic outer material cools. The whole procedure must be completed in a similar time as taking an impression.

Remove from the mouth and immediately cool for 10 seconds under cool tap water. Allow to cool out of the mouth for a further 1-2 minutes, then place the T4U™ into the patient's mouth to check for fit. Check for good impression of upper dentition.

Repeat the fitting procedure if the retention is not sufficient or anterior teeth have not made an adequate impression in the T4U™. Ensure water is reheated to 100°C before proceeding.

NOTE - Retention tends to improve with the slight shrinkage occurring after 24 hours. Areas of irritation (distal flanges like a denture) can be trimmed with an acrylic or stone burr. The T4U™ may also be used for lower arch applications.



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