



Instructions on how to use the MTA Pellet Forming Block.

Read carefully. (Patent #6,203,319)

For intra-canal applications such as perforation repair and apical plugs (ortho-grade application):

- 1) Mix the MTA to the proper consistency. Avoid a mix that is too wet or too dry. If the MTA mix is too wet, the pellet will not form. If the MTA mix is too dry, it will be crumbly and unmanageable. As a general rule, the mix should have a matte finish and not a watery gloss.
Use a spatula to bring a small amount of MTA to the block (Figure 1). Fill one half of the long groove with MTA and wipe away the MTA outside the groove with a cotton swab or with a gloved finger. The results should look like Figure 2.
- 2) Slide an endodontic plugger into the groove and push out the MTA. A small pellet of MTA, shaped like the groove, should be at the tip of the instrument. The results should look like Figure 3.
- 3) Place the pellet into the repair site and condense. Repeat step 1 through 3 as needed.

For Root-end fillings (retro-grade application):

- 1) Prepare the canal using ultrasonic instrumentation. Dry the canal.
- 2) Mix the MTA to the proper consistency. Avoid a mix that is too wet or too dry. If the MTA mix is too wet, the pellet will not form. If the MTA mix is too dry, it will be crumbly and unmanageable. As a general rule, the mix should have a matte finish and not a watery gloss.
- 3) Choose the appropriate size groove to fit the root-end preparation. Start with the smallest groove if you are uncertain. Use a spatula to bring a small amount of MTA to the block (Figure 1). Place the MTA into the groove and wipe away the MTA outside the groove with a cotton swab or with a gloved finger. The results should look like Figure 4.
- 4) Place the tip of the Delivery | Carver Instrument Ref. 8421 or Ref. 8460 into the groove (Figure 5) and slide out the MTA, (the **delivery end** of the instrument Ref. 8421 is the end with the letter "D" on the handle grip). A small pellet of MTA, shaped like the groove, should be at the tip of the instrument. The results should look like Figure 6a und 6b.
- 5) Insert the pellet into the root-end preparation and condense with a plugger. Add pellets and condense until the canal is completely filled. Carve away the excess MTA with the other end of the instrument (the **carving end** of the instrument Ref. 8421 is the end with the letter "C" on the handle grip).

Helpful hints:

It is easier to use a small size endodontic mixing spatula when mixing and placing the MTA into the grooves.

For root-end fillings, the canal should be sized to an eg. Analytic p-1L plugger or larger. Most molar and bicuspid preparations will take the small size groove. Anterior teeth generally take the larger size groove.

Avoid digging the Delivery | Carver Instrument Ref. 8421 or Ref. 8460 into the plastic when sliding the MTA pellet out of the groove.

The MTA pellet forming block is autoclavable.

Benefits of MTA pellet-forming technique:

- 1) Selects for the right consistency of MTA.
- 2) MTA can be delivered to difficult areas of the tooth.
- 3) Clean delivery of MTA. Minimizes waste.

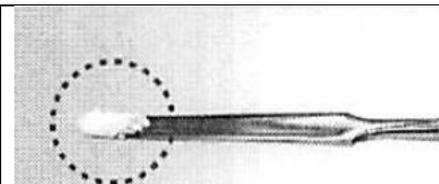


Figure (1)

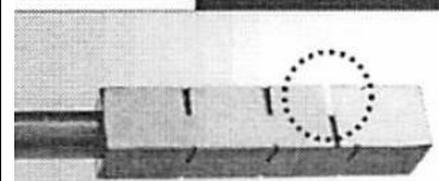


Figure (2)

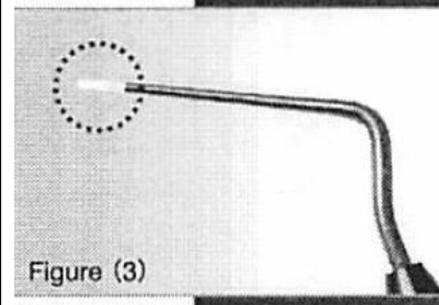


Figure (3)

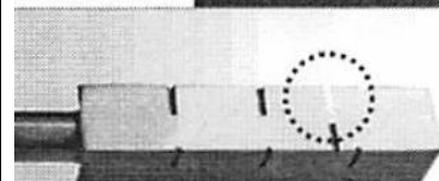


Figure (4)

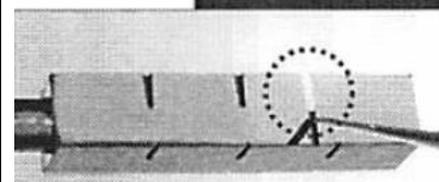


Figure (5)

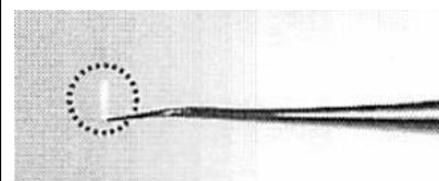


Figure (6a)

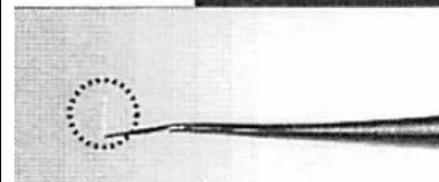


Figure (6b)