



BIOCLEAR



POSTERIOR COMPOSITE SYSTEM INSTRUCTIONS

molar

molar

# GETTING STARTED

## KEYS TO SUCCESS

- Use a rubber dam
- Choose the correct matrix
  - Use a Bioclear clear matrix for simultaneous buccal & lingual curing
- Use Bioclear Forceps, as designed specifically for the Twin Ring
- Check for proper matrix orientation
- Seat deep into sulcus

## MATRIX SELECTION

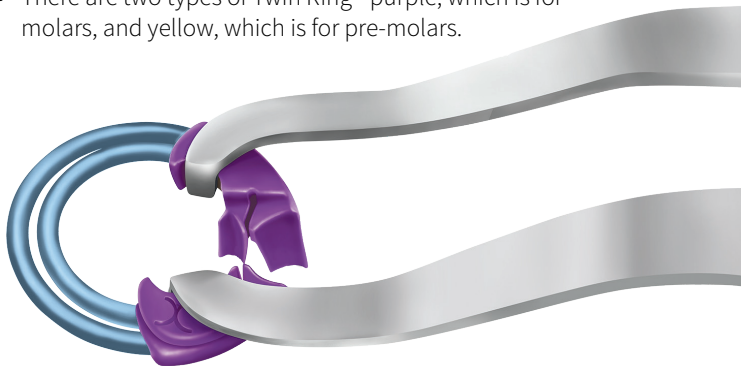
Use the MATRIX SELECTION GUIDE on the back of the instructions to help select the appropriate matrix.

## BIOCLEAR PUNCH PLIERS

- Use Bioclear Punch Pliers to assist in the removal of the matrices and the wedges
- Both Clear AND Metal matrices can be removed using the Punch Pliers
- If additional pressure is needed to puncture the matrix or wedge, then squeeze the handle closest to the point

## TWIN RING TIPS FROM DR. CLARK

- Use Bioclear Forceps with the Twin Ring. The Bioclear Forceps are specifically designed for safely and securely opening and placing the Twin Ring.
- Ensure that the tines of the forceps are **completely engaged with the plastic handles** of the Twin Ring (see below). If they are not fully engaged or if the tines are seated on the metal, then it can cause the Twin Ring to break.
- There are two types of Twin Ring - purple, which is for molars, and yellow, which is for pre-molars.



# BUILDING A TIGHT CONTACT

## 1. PRE-WEDGE AND PREPARE THE TOOTH

Insert the Bioclear Diamond Wedge before cavity preparations. This will stretch the periodontal ligaments providing more working space and separation for a tight contact once the restoration is complete. Prepare the tooth. Make sure to break the contact using a fine bur or the TruContact Sander.

## 2. REMOVE WEDGE AND THEN PLACE BIOCLEAR MATRIX INTO THE EMBRASURE

Remove the pre-wedge. Then, using cotton pliers, grip the small tab on the selected matrix. Slide the matrix into the embrasure space making sure the matrix is centered on the tooth and the tab is towards the occlusal.

## 3. WEDGE THE MATRIX

You can either re-use the wedge used in the pre-wedging step, or use a larger wedge for stronger separation. Insert the selected wedge against the matrix. Check that the wedge has not inverted the curve of the Bioclear Matrix.

*\* In deep caries cases, use the Deep Caries Diamond Wedge. Position the Deep Caries bubble toward the cavity.*

## 4. PLACE THE TWIN RING

Open the Twin Ring using the Bioclear ring forceps just enough to get past the matrix down to the gingival margin. Release the forceps to clamp the ring over the top of the wedge and down against the matrix and teeth. Ensure that the matrix is between the tines and the tooth, is not folded inside the hands of the ring, and is properly

positioned. Use your fingers to lightly press on the ring to seat it more fully.

*\* With the tip of opened cotton pliers, gently adapt the matrix against the neighboring tooth. This will create a broad contact.*

## 5. PLACE THE COMPOSITE

*\* Using the Bioclear clear posterior matrix allows for 3 point curing. Cure from the buccal, lingual and occlusal before removing the matrix.*

## 6. REMOVE THE TWIN RING, WEDGE, AND MATRIX

Use the Bioclear Punch Pliers to assist in the removal of the matrix and wedge. Squeeze the end of the handle to open and, upon release, the point will punch through the matrix.

# INDICATIONS/SAFETY/STERILIZATION INSTRUCTIONS

**Indications:** The Bioclear Matrix Posterior System is indicated for all Class II restorations. This system utilizes Bioclear Twin Rings, Bioclear Diamond Wedges, and Bioclear Matrices.

## Safety

To offer your patients the safest, most comfortable procedure possible, carefully read the enclosed instructions and watch the tutorials on the website prior to use.

Note: Please check [www.bioclearmatrix.com](http://www.bioclearmatrix.com) to find the most recently updated instructions and tutorials.

## Warnings

The Bioclear Matrix Posterior system contains small, sharp components. Use of a rubber dam is mandatory to prevent inhalation of parts. Use of gloves and/or pliers are recommended to prevent lacerations.

**Aspiration:** Seek immediate medical attention if any part is inhaled.

**Laceration:** If laceration occurs by a clean matrix, use appropriate first aid measures and then discard the matrix according to local regulations. If laceration occurs by an unclean matrix, recommended post-exposure procedures should be taken in addition to the appropriate first aid treatment.

**Handling:** To protect patients from injury, please take care to remain in full control of all instruments at all times. Use ONLY accessory tools designed, supplied, and/or outlined for use with the Bioclear Matrix Posterior System as listed in the instructions.

## Precautions

Bioclear Matrix offers instructions and classes for using these products. Any use not specified in the instructions is not recommended and will be the responsibility of the attending practitioner.

**Please note:** that the Twin Rings are under tension. Make sure that they are appropriately placed on the forceps prior to insertion and that they are seated firmly prior to removing the forceps.

## Storage

Store in a clean, dry environment at temperatures between 10-24°C/50-75°F, away from sunlight, moisture, excess humidity, flame or sources of ignition.

## Wedges and Matrices are for single use only.

Used tools and materials are contaminated. Appropriate precautions should be taken to clean and/or discard according to standard procedures for sharps.

## Hygiene

Avoid Cross Contamination  
Bioclear Matrices and Wedges are single use ONLY and should be appropriately disposed of in accordance with local regulations.

## Pre-Sterilization

Rinse any contaminants from the Twin Ring.  
Use warm water and a soft nylon brush to gently wash the ring and then rinse in warm water.

## Automated Washer Disinfector

Rings can also be reused by cleaning them in a washer-disinfector.

Only properly maintained, calibrated, and approved washer-disinfectors should be used in accordance with ISO 15883-1.

Place tools in the washer-disinfector in such a manner as to allow the water and detergent to enter and drain from device openings.

Follow washer-disinfector's Instructions for Use.  
Run washer-disinfector program with A0 value  $\geq 3000$  (e.g. 5 min at  $\geq 90^{\circ}\text{C}$ ) using appropriate detergents. Tools can be reprocessed by washer-disinfector up to 500 times.

## Sterilization

To ensure proper sterilization, all instruments should be steam-autoclaved at 134°C/273°F for at least 3 minutes. Rings should not be left in the autoclave for long periods as this may result in staining from the autoclave itself. Please note: Do NOT use chemical sterilization or ultrasonic cleaning techniques; the warranty will be voided if chemical sterilization or ultrasonic cleaning is used. Sterilization methods other than steam are NOT recommended by Bioclear Matrix and, if used, are the sole responsibility of the practitioner.

## Post Sterilization

Allow tools to fully dry prior to storage. Forceps do not require further maintenance and should not be oiled or greased.



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