

## **MATRIX WEDGES**

### ***INSTRUCTIONS FOR USE***

The devices are for single use.

#### **Target groups**

No limitations for target treatment group – the devices can be used for all groups of patients without restrictions.

#### **Warnings and precautions**

- 1) Do not re-use.
- 2) Prior to use the device make sure of integrity of the device and absence of dirt on it.
- 3) The devices are supplied in non-sterile state and in case of risk of contamination are to be sterilized as follows - in 6% solution of hydrogen peroxide at ambient temperature for 360 min or in autoclave bag in autoclave at 121°C for 20 min in accordance with instructions of autoclave manufacturer.
- 4) Use rubber dam to avoid device swallowing by the patient.

### ***STERILIZATION***

Matrix wedges are single-use devices. They are supplied in non-sterile state. In case there is a risk of contamination sterilization before use can be performed as follows.

#### **Procedure:**

- 1) Disinfect your hands;
- 2) Put on disposable gloves;
- 3) Perform sterilization by keeping
  - in 6% solution of hydrogen peroxide at ambient temperature for 360 min;
  - or
  - in autoclave bag in autoclave at 121°C for 20 min in accordance with instructions of autoclave manufacturer.

#### **Storage**

Sterilized devices can be stored:

- 1) In the UV-chamber – please refer for the instruction of the UV-chamber for the detailed storage conditions.
- 2) In the autoclave bags - please refer for the instruction of the autoclave bags for the detailed storage conditions. Products sterilized in autoclave bags should be stored in closed cabinets in clean, dry rooms, preferably at a temperature of 15-30°C and a relative humidity of 33-50%, avoiding exposure to direct sunlight. Unauthorized access to these rooms should be excluded.

### ***OPERATING INSTRUCTIONS***

#### **Preparation**

1. Open the packaging.
2. Make sure that there are no:
  - signs of violation of the integrity of the device (including cracks and chips),
  - traces of dirt on the surface.

## **Operating procedure**

### **Fixing Wooden Wedges**

1. Select the correct size wedge.
2. Put matrix - retainer system onto the prepared tooth.
3. Place by hand the wedge, once it is seated tightly in the gingival embrasure.
4. Perform restoration.
5. Remove the wedge and matrix from the mouth.

### **Plastic Wedges (transparent and non-transparent)**

1. Select the correct size of the wedge.
2. Put matrix - retainer system onto the prepared tooth.
3. Place by hand or special pliers the wedge, once it is seated tightly in the gingival embrasure.
4. Perform restoration.
5. Remove the wedge and matrix from the mouth.

### **Elastic Wedges**

1. Select the correct size of the wedge.
2. Put matrix onto the prepared tooth.
3. Out of patient mouth insert stems of Rubber dam forceps or forceps for ring installation with stoppers into the elastic wedge holes.
4. Install the system onto the tooth for proper matrix fixation.
5. Remove forceps.
6. Perform restoration.
7. Remove matrix and elastic wedge via forceps.



### **Add-On Fixing Wedges and Tubes**

1. Select the necessary wedge (tube).
2. Install matrix onto the prepared tooth.
3. Out of patient mouth insert tines of fixing ring into the holes of add-on fixing wedges (tubes).



4. Using forceps put on the ring with add-on wedges (tubes) onto the prepared tooth.
5. Remove forceps from the mouth and perform the restoration.

Operating position  
Add-on wedges

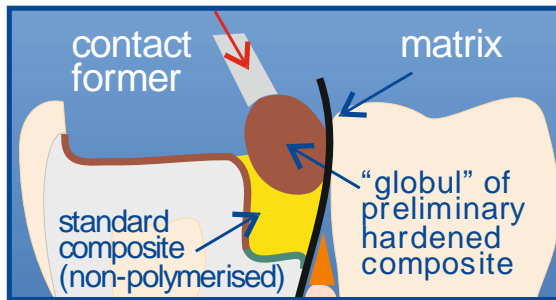


Add-on tubes



6. Remove the ring with add-on wedges (tubes) and matrix from the mouth.

## Shape-Former Caps



- 1) Perform adhesive preparation of the tooth.
- 2) Apply fluid composite (0,3-0,5 mm layer) on all the sides of treated cavity except the gingival one, perform photopolymerization.
- 2) Out of the patient mouth prepare "globul" from standard composite (size of the "globul" should be a bit smaller than treated cavity), perform its photopolymerization.
- 3) On gingiva side of the cavity apply first thin layer of fluid composite and then standard composite. Don't perform photopolymerization!
- 4) Place the "globul" into the cavity and press it with contact former providing matrix close tightness to neighbour tooth in the contact point.  
Keep on pressing the "globul" perform photopolymerization. After it remove contact former and repeat photopolymerization once more.
- 5) Perform tooth restoration.
- 6) Remove fixing ring, bend back matrix and perform composite photopolymerization in gingival area with light directed from facial and lingual surface of the tooth.
- 7) Remove matrix and fixing wedge.
- 8) Perform restoration polishing and finishing.
- 9) Check contact the state of contact surfaces and contact point location and density with floss.