

MATRIX WEDGES

Fixing Wooden Wedges ## 1.181, 1.182, 1.183, 1.184, 1.185, 1.186, 1.187, 1.080, 1.083, 1.085,

Trigonal Fixing Wooden Wedges #1.281

Transparent Fixing Wedges ## 1.810, 1.811, 1.812, 1.820,

Plastic Fixing Wedges ## 1.840, 1.841. 1.842

Wedges Elastic ## 1.801, 1.802, 1.808

Add-On Fixing Wedges ## 1.861, 1.866

Add-On Fixing Tubes # 1.862,

Shape-Former Caps ## 1.863, 1.867, 1.868

Self-Adapting Fixing Wedges ## 1.874, 1.875, 1.876

PRECAUTION

Devices in plastic packages should be stored away from heating devices to avoid packaging damage.

INSTRUCTIONS FOR USE

Revision 19

Revised July 01, 2024

Matrix wedges are intended for professional use in dental clinic only. Operating with matrix wedges is well known procedure. No special training needed.

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.

Benefits

Matrix wedges are used to create ideal contacts and a tight cervical seal when placing direct restorations, and also for separating the teeth, maintaining the separation once obtained, or holding a matrix in place. They can be used alone or in combination with a compatible matrix system. The wedges keep filling and restorative materials in the matrix and reduce the formation of overhang, making polishing easier and quicker.

Wedging also serves the following purposes:

- prevents surplus amalgam being forced into the gingival crevice;
- assists in contouring the cervical part of the proximal surface;
- separates the teeth to compensate for the thickness of the matrix band such that proximal contact is re-established when the band is removed.

Wedges Elastic can be also used for as a cord with Cofferdam system. Shape-former caps are used for dental filling modelling.

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 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.

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 ## 1.181, 1.182, 1.183, 1.184, 1.185, 1.186, 1.187, 1.080, 1.083, 1.085, trigonal fixing wooden wedges #1.281

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) ## 1.810, 1.811, 1.812, 1.820, 1.840, 1.841, 1.842

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.

Wedges Elastic ## 1.801, 1.802, 1.808

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 ## 1.861, 1.862, 1.866

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

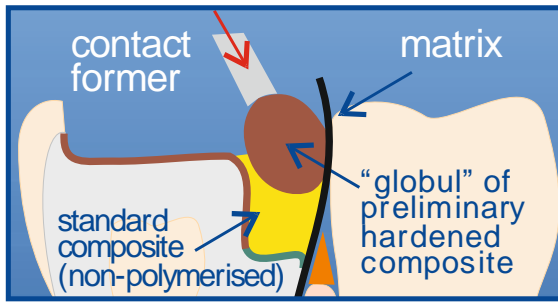


Add-on tubes



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

Shape-Former Caps ## 1.863, 1.867, 1.868



- 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.

Self-Adapting Fixing Wedges ## 1.874, 1.875, 1.876

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.

Storage

Store matrix wedges in a dry place, away from direct sunlight. Devices in plastic packages should be stored away from heating devices to avoid packaging damage.

Product shelf-life

Shelf-life of matrix wedges is unlimited.

Disposal

Used matrix wedges are to be disposed as class 3a "other non-hazardous wastes" according to WHO-UNEP/SBC 2005 coding recommendations.

Warranty

Matrix wedges are single-use devices.

TOR VM will replace the product that is proved to be nonconforming.

It is up to user to ensure that the product is suitable for the intended process and purpose. The user is responsible for inspecting the devices prior to each use and for the use of damaged and dirty devices.

Any serious incident or non-compliance that has occurred in relation to TOR VM matrix wedges should be reported by e-mail torvm77@gmail.com and/or tor.vm.de@googlemail.com.