

Dentapreg® PINPost Instructions for use

ROOT-CANAL POST

Basic description:

Dentapreg® PINPost is a reinforcement material used in the field of restorative dentistry. It is a flexible root pin formed by a bundle of unidirectionally oriented glass fibers with a surface treatment. The fibers are embedded in a cured polymer matrix. Due to its flexibility, the pin adapts to the morphology of the canal, so extensive preparation is not required, which preserves the original biomechanics of hard dental tissues, and reduces the risk of perforation of the root wall.

Intended uses:

Dentapreg® PINPost is a medical product intended to increase the retention of buildups. It is used as a retention element ensuring the mutual integrity of the buildup and the remaining part of the tooth, i.e., as a root pin for endodontically treated teeth.

Contraindication:

In rare cases, the use of Dentapreg® medical products may be associated with an allergic reaction. The use of Dentapreg® medical products is contraindicated in patients with known sensitivity to any of the components contained in Dentapreg® medical products (especially methacrylate monomers and polymers).

Safety measures:

- During application, it is recommended to use powder-free latex or vinyl protective gloves, and to use non-contact techniques.
- Avoid looking directly into the light of the curing lamp, use safety goggles when curing. Also protect the eyes of the patient.
- Avoid contact with eyes, ingestion, and contact with skin and soft tissues.
- In the event of the contact of an uncured strip with soft tissues or skin, gently wipe the affected area with a cotton swab or gauze, and rinse with water. In the event of hypersensitivity (allergic reactions), seek medical advice and refrain from using the product on the given patient in the future.
- Inform the patient about the need to observe hygienic principles.
- Instruct the patient to see a dentist without delay in the event of a functional failure.
- In the event of any serious adverse effects, contact the manufacturer and the relevant regulatory authorities immediately.

Manufactured by

ADM, a.s., U Vodárny 2, 616 00 Brno, Czech Republic
www.dentapreg.com

Important notice:

- Do not use the product after the expiration date.
- The product is not intended for multiple use.
- Do not use the product if it becomes contaminated or otherwise damaged while being relocated to the designated place of use.
- Do not use in combination with materials containing eugenol, phenolic substances may affect the curing of the resin matrix.
- Do not use the product if the protective cover is damaged in any way.
- In the event of deterioration or expiration of the product, dispose of the product as normal waste.
- The target group of patients is not limited and corresponds to the prevalence of disability.

Compatibility information:

- Adhesive system: when choosing the adhesive system follow the manufacturer's instructions for the composite material used.
- Composite material: use a methacrylate-based composite material. Use low-viscosity dual-setting cement for fixing the pins, and use core buildup material for completing the buildup.

Storage:

Dentapreg® PINPost should be stored at temperatures between 4 and 25 °C. In the event that no contamination occurs, the product can be stored without restriction for the entire shelf life after opening the packaging. Do not expose to temperatures greater than 25 °C for an extended period of time. Do not use after the expiry date stated on the packaging.

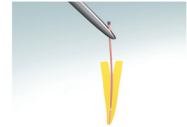
Additional information:

The product is intended exclusively for use by a dentist. Always use in accordance with the instructions for use and the defined intended uses. ADM, a.s. does not accept liability for damages caused by non-compliance with the prescribed application procedure or use outside the specified indication range. Always familiarize yourself with material safety data sheets available at www.dentapreg.com. They can also be obtained from your supplier.

1) Remove the gutta-percha filling from the pulp chamber using a suitable size ex. NiTi file. All of the endodontic filling material must be removed from the length of the preparation except for the last 3-5 mm of gutta-percha at the apex of the root. Rinse the canal with water and dry carefully with paper points. The working area should be isolated from moisture as much as possible. The use of a rubber dam is highly recommended.



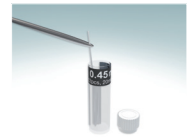
2) Measure the depth of the prepared canal, using an endodontic instrument or a periodontal probe. Keep in mind the height of the coronal part. This option requires an extra step but saves on the amount of material used. It is also possible to use the entire pin without measuring the depth of the canal, the excessive material will be removed later. This option is faster but uses more material.



3) Use a low viscosity dual-curing cement for cementing the post. Prepare the root canal according to the cement manufacturer's instruction before cementation of the post. Fill the root canal with cement using an intraoral tip. Start the filling from the apex part and continue slowly upwards until you fill the whole canal. Do not use a Lentulo Spiral Filler - it accelerates the polymerisation and shortens the working time.



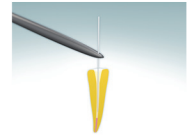
4) If a measurement of the canal was taken, remove the Dentapreg® PINPost from the storage bottle and cut it with sharp scissors to the required length. You can use the rest of the Dentapreg® PINPost later. If no measurement was taken, use the whole pin.



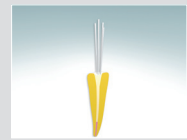
5) Apply a thin layer of resin cement onto the Dentapreg® PINPost surface.



6) Insert the Dentapreg® PINPost slowly into the root canal.



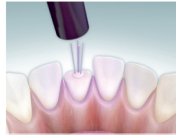
7) Repeat steps 5 and 6 as necessary (use 4 to 6 pins per canal depending on its width).



8) Clean the overflowing cement in the flaring area.



9) Light cure the cement according to the manufacturer's instructions.



10) Apply an adhesive system on the top of the pins.
Light cure it according to the manufacturer's instructions.



11) Build the coronal part of the tooth from composite material using a preferred method. * Use the enamel shade of the composite for the final layer. Light cure it according to the composite manufacturer's instructions. Adjust the occlusion and polish.

* You can use the Dentapreg® UFM strip for reinforcing the composite crown. It is necessary to place Dentapreg® UFM into the uncured layer of composite, adapt it on the crown core and then light cure it for 40 sec.



NOTE
If the pins are too long you can shorten them using a diamond bur.



12) Final crown made with Dentapreg® PINPost.



Removal of a Dentapreg® PINPost

Use the common procedure for removal of traditional glass fiber posts.

Important

- Before using Dentapreg® PINPost pins, the root canal must be endodontically treated in accordance with generally accepted methods.
- For the optimal use of the properties of flexible Dentapreg® PINPost pins, it is recommended to apply the principles of minimally invasive dentistry (maximum preservation of hard dental tissues).
- Use metal instruments such as tweezers or spatulas for adapting the Dentapreg® strips. Sterilize instruments before use.
- Do not use if it is not possible to ensure a dry working field.
- The same procedures can be used to remove Dentapreg® PINPost pins as for the removal of conventional fiberglass pins.