



ACHROMAT-T™ / ACHROMAT-THP™ Esthetic Fiber Post Systems

Product Information & Instructions for Use

Customer Information and Indications

Please read the product information carefully before using ACHROMAT-T™ or ACHROMAT-THP™ Esthetic Fiber Posts. The ACHROMAT-T™ or ACHROMAT-THP™ material was specially developed for use in dentistry and should only be used in accordance with the recommended technique. This device is intended for use only by qualified practitioners who are familiar with post and core restorations. The manufacturer does not accept any liability for damage caused by disregarding these instructions or incorrect use. The user is personally responsible for checking that the material is suitable for the intended purpose.

Contraindications: Teeth with subgingival caries, and extremely small roots.

Caution: U.S. federal law restricts this device for sale to a licensed dental practitioner.

Distributed by
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1. Application of ACHROMAT-T™ or ACHROMAT-THP™ Fiber Posts

For insertion into the root canal to stabilize and support a restoration, including those involving teeth with damaged crowns or fractured teeth with no other lesions of the roots and still completely intact periodontally.

1.1. Requirements for using the ACHROMAT-T™ or ACHROMAT-THP™ Fiber Post System

- The root should be periodontally intact.
- The lesion should not extend below the gingival margin.
- The residual tooth structure should be caries-free.
- Successfully completed root treatment
- The post should fit against the root walls.
- Anchorage depth at least 2/3 of the length of the root canal
- Adequate root wall thickness (min. 1.5mm)
- As large a post diameter as possible
- Preparation margin at least 1mm into the natural tooth structure

1.2. Precautions:

Isolation with a rubber dam or alternate method is recommended.

Disinfect / sterilize drills and other instruments before use according to manufacturers' instructions.

The posts should be secured with a safety chain or other safety measures taken to prevent aspiration or swallowing by the patient.

2. Recommended Technique

- Select the appropriate post size using the x-ray.
- Decide at this stage whether to use the ACHROMAT-T™ non-headed post or the ACHROMAT-THP™ headed post.
- Remove the root filling, ensuring that a minimum of 4mm root filling is left in the apex.
- Before placing the ACHROMAT-THP™ post, use the root-facing bur provided in our kit to pre-prepare a rest. Cut to a depth of approx. 1mm @ 2,000 rpm. This step is not required for ACHROMAT-T™ posts without a head.
- Prepare the root canal to the required depth with a drill. The correct depth is determined by viewing the x-ray. ACHROMAT-T™ or ACHROMAT-THP™ posts can be easily cut to the appropriate length using a diamond disc. The post should always be shortened extra orally. ACHROMAT-T™ posts are radiopaque and the fit can be checked using x-rays.
- Disinfect the post with medical alcohol. The alcohol is used to remove any grease/oils as a result of handling and will ensure that the cement bonds properly. Do not handle after cleaning.

The posts cannot be sterilized. High temperatures will damage the material.

- We recommend an adhesive luting technique, using a 4th generation (2-bottle) or 5th generation (1-bottle) bonding system.

Please note: Do not clean the root canal with NaOCl (sodium hypochlorite) or H₂O₂ (hydrogen peroxide), as these chemicals can have a detrimental effect on the polymerisation of the resins. Use paper points for drying. Compressed air may contain oil, which weakens the bond.

- Adhesive Bonding Agent technique:
 - Etch the root canal and surface of the prepared tooth with acid according to manufacturer's instructions.
 - Coat the dentin walls and post with primer / bonding agent according to manufacturer's instructions.
- Apply luting cement to the post, canal, or both.
- We recommend using a low-viscosity self-cure or dual-cure resin cement for cementation. If using the post with a head, it is important to ensure that there is adequate cement to provide a thin but complete layer, (no air space), between the bottom of the head and the occlusal plane.
- Insert the post into the canal applying gentle pressure to allow any excess to escape. Carefully remove the excess and light cure if necessary.

Caution: The post cannot transmit light to the required depth. This is why self-curing or dual-cure resins and cement should be used.

- Fabricate the core using a suitable core composite. (Adhere to the manufacturer's instructions).
 - Complete the preparation ensuring that it is at least 1.5mm below the root surface.
 - If necessary, the size or shape of the core build-up can easily be adjusted intraorally using an NTI diamond instrument. A rubber dam should be used when adjusting.
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