Directions for Use English

DENSPLY

AH Plus®

Root Canal Sealing Material

AH Plus® is a two-component paste/paste root canal AH Plus comes in the following deliveries: sealer based on epoxy-amine resin, offering the fol- as AH Plus in tubes for manual mixing of pastes A and B lowing features: as AH Plus Jet™ Mixing Syringe for direct intra-oral Long term sealing properties application, offering a more precise, convenient and · Outstanding dimensional stability faster procedure. · Self-adhesive properties · Very high radioopacity COMPOSITION · Excellent scientific documentation in many clinical and in-AH Plus Paste A AH Plus Paste B vitro studies Bisphenol-A epoxy resin Dibenzyldiamine · Use as reference and standard in many investiga-Bisphenol-F epoxy resin Aminoadamantane Calcium tungstate Tricyclodecane-diamine tions Zirconium oxide Calcium tungstate Extensive market history Complies with the requirements of ISO 6876: 00 (E) Silica Zirconium oxide for dental root canal filling materials. Iron oxide piaments Silica Silicone oil

INDICATION

Permanent obturation of root canals of teeth of the secondary dentition in combination with root canal points.

CONTRAINDICATION Hypersensitivity against epoxy resins, amines or other

the products.

WARNINGS AH Plus contains epoxy resins (paste A) and amines (paste B) which may cause sensitisation in susceptible

persons. Do not use AH Plus in persons allergic to

epoxy resins or amines or any other components of

components of the root canal filling material.

rinse immediately with plenty of water. Oral mucosa contact: Avoid contact with oral soft tissues. In case of contact, use suitable material (e.g.

cotton rolls) to take up sealer as far as possible. Flush/ spray mucosa with plenty of water and remove water with suction. Expectorate water. If sensitization persists. seek medical attention immediately. Ingestion: Do not swallow or take internally. If accidental

swallowing occurs, drink lots of water. If nausea or illness develop, seek medical attention immediately.

When overfilling occurs, the material is usually tolerated very well by the surrounding tissue. In cases where larger amounts of material are pressed into the mandibular

Skin or eve contact: Avoid contact of single pastes or

unset mixed paste with skin or eyes. In case of contact,

be considered, as with all root canal materials according to To be stored at temperatures between 0 °C and standard of care Keep resin tubes or the double barrel syringe tightly closed Inadequate storage conditions will shorten the shelf life PRECAUTIONS

None known ADVERSE REACTIONS

STORAGE

With sealers containing epoxy resins, the following

contact with the unset paste.

adverse reactions were reported: Reversible acute inflammation of the oral mucosa after

INTERACTIONS WITH OTHER DENTAL MATERIALS

and may lead to a malfunction of the product.

Under certain storage conditions, AH Plus Paste B

may slightly separate. It has been shown that this process does not negatively affect the performance of the mixed product. Wear suitable protective evewear, clothing and gloves.

Protective eyewear is recommended for patients.

canal, immediate surgical removal of the material has to

 In individual cases, local and systemic allergic reactions have been reported.

STEP BY STEP INSTRUCTIONS

Preparation of the Root Canal

Prior to application of AH Plus, prepare, clean, and dry the root canals to be filled using state-of-the-art endodontic techniques.

Dosage and Mixing Using AH Plus in tubes: Mix equal volume units (:) of Paste A and Paste B on a glass slab or a mixing pad using a metal spatula. Mix to a homogeneous consistency.

Caution: Do not exchange caps of tubes. The coloured cap belongs to the coloured tube; the white cap belongs to the white tube

Using AH Plus Jet Mixing Syringe: Remove the cap by

turning it 90° counter-clockwise and pulling it. Note: For AH Plus Jet Mixing Syringe, the syringe filling volumes of pastes A and B vary slightly. To ensure appropriate mixing, bleed the syringe prior to first use.

Attach the mixing tip to the syringe, aligning the notch, then turn the tip 90° clockwise. Ensure secure fit of the mixing tip. AH Plus Jet Mixing Syringe allows direct application of the sealer into the root canal orifices and into the coronal parts of the canals. The intra-oral tip can be

Mixing ratio by weight is g of paste A to . 8 g of paste B.

rotated and adjusted in angle in order to meet individual anatomic conditions and treatment requirements. Use of a Disposa-Shield® is recommended for intraoral use (ReOrder No.: A88006). Discard Disposa-Shield after use. For application of the sealer, carefully apply steady pressure onto the plunger. The two pastes are automatically mixed in equal volume units.

Having finished the sealer application, the mixing tip must be discarded. Remove the mixing tip by turning it 90° counter-clockwise and pulling it. Replace the cap on the syringe head, aligning the notch, then turn it 90° clockwise.

Application

As a standard technique, AH Plus is used in combination with gutta-percha, silver or titanium root canal points. For filling techniques where most of the canal is obturated by endodontic point material, apply only a light coating of AH Plus to the canal walls. For the Master-Point-Technique, select a gutta-percha point (or alternatively a paper point or a reamer) in the size of the last instrument used during apical preparation. Wet the canal walls with AH Plus through a pumping or simultaneously rotating movement in a counter clockwise direction of the point/ reamer. Alternatively, apply AH Plus onto the tip of a Lentulo spiral. Advance the Lentulo spiral slowly to the apex running at very low speed. Avoid the formation of air bubbles in the material and overfilling of the canal.

Withdraw Lentulo very slowly still running at low speed. Dip disinfected and dry point/s into AH Plus and insert them into the canal with a slow pumping motion. Removal of Root Canal Filling If AH Plus is used in combination with gutta-percha

points, the root canal fillings can be removed using con-

°C.

ventional techniques for the removal of gutta-percha.

Measured according to ISO 6876: 00 (E).

The working time is at minimum hours at

Working Time

Setting Time The setting time is at minimum 8 hours at 7 °C.

CLEANING OF INSTRUMENTS Spatulas, mixing slabs and instruments should be cleaned immediately after use with alcohol or acetone.

BATCH NUMBER I AND EXPIRY DATE I ence which requires identification of the product.

The batch number should be quoted in all correspond-

Patent No : US 7998: EP 067 6 7

Do not use after expiry date.

If you have any questions, please contact:



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