



KP-Root SP™

Injectable Root Canal Sealer

INSTRUCTIONS FOR USE

1 PRODUCT DESCRIPTION

KP-Root SP is a premixed ready-to-use, injectable **bioceramic paste**, which is used for tight sealing and permanent filling of root canal. KP-Root SP is an insoluble, radiopaque and aluminum-free material, which requires the presence of water to set and harden. KP-Root SP does not shrink during setting and demonstrates excellent physical properties. KP-Root SP is packaged in a preloaded syringe and demonstrates excellent injectability, and is very convenient to use.

2 MODEL AND SPECIFICATION

MODEL: KP-Root SP

SPECIFICATION: 0.5 g/units,
1g/units, 2g/units

3 MAIN COMPOSITION

Zirconium oxide, Strontium doped calcium silicates, Calcium hydroxide, Calcium phosphate monobasic and Filler agents.

4 INDICATIONS FOR USE

Permanent obturation of the root canal following vital pulp-extirpation.

Permanent obturation of the root canal following removal of infected or necrotic pulp and placement of intracanal dressings.

KP-Root SP is suitable for use in the single cone and lateral condensation technique.

5 TECHNICAL INFORMATION

5.1 Working time: the working time can be more than 4 hours at room temperature.

5.2 Setting time: setting time is about 8 hours in moist root canal. However, in very dry root canals, the setting time can be more than 10 hours.

6 DIRECTIONS FOR USE

6.1 Prior to the application of KP-Root SP, thoroughly prepare and irrigate the root

canal using standard endodontic techniques. Rubber barrier is recommended.

6.2 Remove the syringe cap from the KP-Root SP syringe and screw on the injection needle. Insert the tip of the syringe into the canal, then gently and smoothly dispense a small amount of KP-Root SP into the root canal by compressing the plunger of the syringe.

6.3 X-ray examination confirmed that the root tip was fully sealed. If not, remove the material out of the root canal thoroughly and repeat the sealing steps.

6.4 While injecting KP-Root SP, draw out the tip of the syringe at a uniform speed until the root canal is completely filled. Avoid bubble formation and overfilling.

6.5 Remove any excess KP-Root SP with a moist cotton ball or swab.

6.6 Place additional gutta percha points into the canal using standard techniques. KP-Root SP will remain part of the permanent root canal filling.

6.7 After each application, discard the disposable injection tip, place the syringe cap tightly onto the syringe hub, and place the syringe into the foil pouch and ensure to seal the pouch. Store in a dry area at room temperature.

7 CONTRA-INDICATIONS

Do not use KP-Root SP in patients with a known allergy to any of the product's ingredients.

8 STORAGE AND SHELF LIFE

8.1 KP-Root SP must be stored in a dry area at room temperature. Avoid light and moisture.

8.2 Period of validity: Two (2) years from the date of production.

8.3 Do not use after expiration date.

9 PRECAUTIONS

9.1 Check and ensure that KP-Root SP

has good flowability before use.

9.2 Do not use excessive force to apply the material into the root canal as this may cause patient sensitivity, discomfort and/or pain, or breakage of the syringe plunger.

9.3 Conventional techniques can be used for the removal of KP-Root SP as used in combination with gutta percha points. Piezo Electric Ultrasonics (with water spray) can also be used.

9.4 Do not re-use the disposable Intra Canal Tips.

9.5 After each application, place the syringe cap tightly onto the syringe hub and store in a dry area at room temperature, to avoid hardening reaction caused by moisture.

10 SYMBOL DESCRIPTION

No.	Symbol	Meaning
1		Trademark
2		Refer to Introduction Manual
3		Date of manufacture
4		Manufacturer
5		Lot number
6		Use by
7		Do not re-use the disposable Intra Canal Tips
8		Keep Dry
9		Keep protected from sunlight
10		Do not use if package is damaged



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