

SB post

PRE-SANDBLASTED DENTAL POST SYSTEM

INSTRUCTIONS FOR USE

SB Posts are stainless steel dental posts used in strengthening endodontically treated teeth that have partially or completely missing crowns. SB Posts, when used with the following products, form a complete system for treating teeth compromised through endodontic treatment and coronal fracture:

- A) Phosphoric acid etching required: Clearfil New Bond or Clearfil Photo Bond bonding agent
PANAVIA (powder/liquid formula) Clearfil Photo Core build up resin
- B) No separate etching step required: **PANAVIA 21 (paste/paste formula) with ED Primer**
Clearfil Photo Core build up resin

SB Posts have unique features offering clinical advantages not found in other post systems. In addition to retention by longitudinal and horizontal grooves, all SB Posts have sandblasted surfaces to provide maximum adhesion between the metal post and cementing resin. The strong durable core provided by the adhesion of the cement to the post and the special stainless steel used in all SB Post construction provides high corrosion resistance and mechanical strength.

COMPONENTS OF SB POST SYSTEM

SB Post Kits and Reorder Packages:

SB Post Trial Kit – 36 Posts:

Contains three each of sizes 2SS, 2S 3SS, 3S, 3M, 4SS, 4S, 4M, 4L, 5S, 5M and 5L.

SB Post Full Kit – 60 Posts:

Contains three each of all sizes.

SB Post Reorder Package:

Contains 10 SB Posts of one size.

SB POST SIZES (20 SIZES ARE AVAILABLE)

Diameter Overall Length	#2 .84 mm	#3 1.04 mm	#4 1.24 mm	#5 1.44 mm	#6 1.64 mm
SS (8.0mm)	X	X	X		
S (10.0mm)	X	X	X	X	
M (12.0mm)		X	X	X	X
L (14.0mm)		X	X	X	X
LL (16.5mm)		X	X	X	X
EL (18.0mm)					X

TWO CHOICES FOR A COMPLETE ADHESIVE POST CORE SYSTEM (Each product sold separately):

1. SB Post, Clearfil New Bond or Clearfil Photo Bond, PANAVIA (Powder/Liquid Formula) and Clearfil Photo Core:

Adhesion between Panavia (powder/liquid) composite resin and the walls of the canal is enhanced by the use of Clearfil New Bond or Clearfil Photo Bond Bonding agent. Additionally, New Bond or Photo Bond placement on the coronal tooth structure reinforces the strength of the core composite and minimizes the development of secondary caries thus providing a well-sealed core.

2. SB Post, Panavia 21 (Paste/Paste Formula) with ED Primer and Clearfil Photo Core:

The use of Panavia 21 with ED Primer provides the same features, without additional steps for etching or placement of bonding agents. The SB Post Core System takes full advantage of the adhesion of these composites to both metal and tooth structure thereby assuring highly reliable composite cores. SB Post utilizes safe and secure post fixation. The cementation of the SB Post into the root canal with Panavia or Panavia 21 adhesive resin minimizes problems associated with threaded posts, including fractures due to a threaded post being screwed too deeply, or loss of retention due to incomplete seating of a threaded post. Strong adhesion between Clearfil Photo Core build up composite and the Panavia or Panavia 21 coated SB Post minimizes the possibilities of the composite stripping from the post or breaking at a thin area. This contributes to the reinforcing effect the SB Post has on the Photo Core build up composite.

FEATURES OF SB POST – Easy, Safe Cementation

1. Easy Placement

Peeso reamers should be used to prepare the canal prior to SB Post cementation. SB Posts have been designed to have a diameter slightly smaller than that of the post hole made by a Peeso reamer of the same SB Post number. This provides for easy cementation of the SB Post into the root canal and avoids the necessity of having to thread the canal walls.

2. Smooth Displacement of Excess Cement

When the SB Post is inserted into the root canal filled with Panavia or Panavia 21, excess cement is smoothly displaced along the longitudinal grooves in the SB Post's surface. This minimizes undesirable floating action of the post as well as the danger of root fracture due to hydraulic pressure.

3. Root Canal Shape

Considering root shape, the apical configuration of the SB Post has been tapered to minimize stress on the root apex.

STRONGER RETENTION OF BUILT-UP CORES

1. Surface Prepared for Adhesion

SB Posts have had their surfaces sandblasted in advance to allow Panavia or Panavia 21 to develop maximum adhesion. The surface irregularities produced by sandblasting provide a stronger core by closely uniting all of the adhesive elements.

2. Superb Mechanical Retention

With its lateral and longitudinal grooves, SB Posts provide superb mechanical retention in both vertical and rotational directions.

3. Excellent Adaptability with Post Hole

SB Posts have been designed to have a diameter slightly smaller than that of the post hole made by a Peeso reamer of the same SB Post number. In addition, their cylindrical configuration, without any taper except in the apical portion, provides a close adaptation between the SB Post and the root canal wall.

4. Strong Post

SB Posts are made with a special high strength stainless steel with lateral grooves made extremely shallow. This combination maximizes the strength of the stainless steel.

EASY HANDLING

1. A Variety of Diameters and Lengths

SB Posts are available in 20 sizes. There is seldom a need to adjust the post length to correspond to the root canal diameter and length.

2. Easy Seating of Multiple Posts

The SB Post head is made as small as possible in relation to the shank diameter. This facilitates easy access during the cementation of multiple posts into multiple root canals in posterior teeth, or in those cases where the pulp chamber is constricted due to remaining tooth structure.

CLINICAL PROCEDURES

1. Endodontic Treatment

Endodontic treatment is carried out in the usual manner. A non-eugenol sealer is preferred.

2. Preparation of Root Canal

The endodontic filling material is removed from the root canal with Peeso reamers starting with the reamer of the smallest diameter. The root canal is cleaned to the same length as that of the clinical crown or 2/3 of the total root length.

3. Choice of SB Posts

Choose SB Posts of suitable diameter and length based on the size determined by the Peeso reamer. Use lock-type tweezers for handling the SB Posts.

4. Fitting of SB Posts

Fit the selected SB Posts into the prepared root canals and adjust their length if needed. Holding the post, cut away excess post from the apex with a finishing disc or cutting pliers.

5. Cementation of Post(s) Using Panavia (Powder/Liquid Formula):

a. Etching:

Apply K-etchant Gel or other suitable phosphoric acid etching agent into the root canal and onto the entire tooth surface. After about 30-60 seconds completely flush away the etching agent with water and dry with the air syringe. Care should be exercised to prevent saliva or exudates from contacting the etched tooth surface thereby impairing adhesion between Clearfil New Bond or Photo Bond adhesive and tooth structure. Should the treated surface become contaminated, it must be re-etched.

b. Clearfil New Bond or Photo Bond Application

After removal of K-etchant Gel and complete drying of the canal, New Bond or Photo Bond is applied to the canal walls and exposed tooth surface per the manufacturer's instructions.

c. Seating of Post

The SB Post should be cemented into the prepared canal with Panavia dental adhesive. Excess Panavia should be applied to the exposed post and coronal tooth structure. When in contact with New Bond or Photo Bond, Panavia's setting time is shortened to approximately 50 seconds. *It is necessary to work rapidly following this sequence: Apply New Bond or Photo Bond to the canal and tooth structure, coat the SB Post with Panavia, coat the canal with Panavia and immediately seat the post. Panavia may be injected into the canal with a Centrix™ needle tube when necessary to fill space.*

6. Cementation of Post(s) Using Panavia 21 (Paste/Paste Formula):

Note: Acid etching and bonding agent are not required.

a. ED Primer Application

After preparation of the canal, mix the ED Primer Liquid A and Liquid B per manufacturers' instructions. Apply to any coronal tooth structure and into the canal. After 60 seconds evaporate the volatiles with a gentle stream of air. If there is any ED Primer remaining in the bottom of the canal, remove it with a paper point. NOTE: Do not apply ED Primer to the metal and do not rinse it off the tooth.

b. Seating of the SB Post

The SB Post should be cemented into the prepared canal with Panavia 21 dental adhesive per the manufacturers' instructions. Excess Panavia 21 should be applied to the exposed post and coronal tooth structure. Panavia 21's setting time is approximately 1 minute after contact with the ED Primer. It is necessary to work rapidly following this sequence: Apply ED Primer to the canal and tooth structure, coat the SB Post with Panavia 21 and immediately seat the post.

7. Build Up of Core Resin

It is suggested that Clearfil Photo Core, light-cured build up composite, be used to complete the abutment. It may be applied directly to the Panavia or Panavia 21 (without the use of Oxyguard).

8. Preparation of Abutment

Once properly exposed to visible light, Clearfil Photo Core quickly polymerizes to almost the same hardness as dentin, thereby providing an abutment with cutting characteristics similar to that of dentin.

HANDLING OF SB POSTS

The SB Posts are pre-sandblasted for better adhesion. Care should be taken not to touch the surface with bare hands. Use lock-type tweezers for fitting and seating of SB Posts and for length adjustment. The SB Post container can be replenished with additional posts as required.

CAUTIONS AND RECOMMENDATIONS

Use caution if using a bonding agent other than described in this Instructions For Use due to unpredictable setting times with Panavia or Panavia 21. To avoid "snap-setting" characteristics, the use of other bonding agents is not recommended.

CAUTION: FEDERAL (USA) LAW RESTRICTS THIS DEVICE TO SALE BY OR ON THE ORDER OF A LICENSED DENTIST.

For technical assistance, educational and training information, additional product literature or to place your order, please call:

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