

PHOENIX DENTAL, INC.

Super Seal® – ITS UNIQUE FORMULATION DIFFERENTIATES IT
FROM ALL OTHER DESENSITIZERS

BY CHARLES F. COX, DMD, PHD

- **Super Seal® chemistry easily removes the restorative smear debris layer.**
- **Nano-crystals immediately block the fluid flow that prevents patient pain.**
- **Nano-crystals are acid resistant and block bacterial microleakage.**
- **Super Seal®** is uniquely formulated with highly purified water that is specifically prepared with purified **medical grade chemistry** in an exclusive patented process.
- Each 8 mL bottle of **Super Seal®** contains approximately 160 drops/applications per bottle.
- **Super Seal®** does NOT contain any organic solvents or agents that are found in tissue fixatives such as benzalkonium chloride (BAC), chloroform, ether, glutaraldehyde (GTA), phenol, or hydroxy-ethyl-methacrylate (HEMA).
- **Super Seal®** is NOT irritating to the vital dental pulp tissues or to the epithelial tooth attachment mechanism or to any of the oral gingival cells.
- **Super Seal®** is more than just a cavity liner agent. Place it immediately following any cavity preparation procedure without any soft tissue damage.
- **Super Seal®** does NOT require any power assisted devices, e.g. polymerizing lights or heat application, or pre-etching with acids or dentin conditioners before placement of the final restoration.
- BEFORE performing any dental office or at home bleaching place **Super Seal®** over the entire enamel surface and on the cervical tooth neck that shows any exposed dentin. **Super Seal®** prevents cold sensitivity and patient pain without any soft tissue damage.
- Place **Super Seal®** before, during and after each hygiene deep scaling and root planning procedure to assist the loosening and breaking apart of the mineralized calculus. **Super**

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Seal® rapidly promotes the painless clinical removal of attached debris without any soft tissue damage.

- During a deep scaling hygiene procedure, gently rinse, remove the scaling debris with gentle evacuation and immediately reapply fresh **Super Seal®** with a new applicator to stop and prevent any post-operative patient pain without any soft tissue damage.
- Place **Super Seal®** as an ideal surfactant (spreading) and re-wetting agent to prevent bubble formation before an impression is taken, gaining a much-improved surface reproduction for the restoration without any minute irregularities or bubbles.
- Place **Super Seal®** on any cervical tooth neck that is missing the protective cementum tissues which leaves the root dentinal tubules exposed without any soft tissue damage.
- Place **Super Seal®** to assist with your removal of any remaining soft plaque biofilm and any dark stains of tea, coffee, red wines and red sauces without any soft tissue damage.
- Place **Super Seal®** on all intra- and extra-coronal tooth preparations to immediately remove the smear layer debris and to **seal** all enamel lamella defects and dentinal tubules. **Super Seal®** blocks the microleakage defects against the invasion of bacteria that causes pain, caries, pulp infection and potential root canal treatment.
- Place **Super Seal®** around the cavo-surface margin of any tooth restoration, where the patient may complain of cold or pain sensitivity. If the restoration is leaky, **Super Seal®** will provide immediate pain relief to cold, air or ice without any vital pulp or soft tissue damage.

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- Place **Super Seal®** onto the enamel and dentin of all patients who present with various genetic conditions such as *amelogenesis imperfecta* or *dentinogenesis imperfecta*. They will feel immediate pain relief, which will be long lasting without any soft tissue damage.
- Place **Super Seal®** on any suspected cracked tooth situation before you take an impression. If the patient feels rapid relief, **Super Seal®**'s diagnostic aid suggests the defect may be corrected by conservative restoration, without endodontics.
- **Super Seal®** is an ideal **practice builder** for any patient who presents with an open carious lesion that is sensitive to cold drinks, ice and sweets.
- Place **Super Seal®** on all enamel surfaces prepared for cosmetic laminate veneers. **Super Seal®** removes all smear debris from enamel and dentin surfaces and seals all defects before the temporization phase is started without any pulp or soft tissue damage.
- Place **Super Seal®** to assist the **removal of any temporary cement** that remains following removal of any provisional restoration. **Super Seal®** simultaneously seals those enamel defects or exposed dentinal tubules before final cementation without any pulp damage.
- Place **Super Seal®** on any sensitive enamel or tooth surface immediately following the **removal of any orthodontic bracket** device that was held in place (bonded) with an adhesive composite or glass ionomer system. The new adhesive systems are so strong and far exceed the bond-strength to enamel—they actually “break away” normal enamel, leaving small depressions of lost enamel and then create larger-more permanent-lamella defects that open bacteria and sensitivity to the microleakage mechanism.
- Place a cotton pellet of **Super Seal®** on the carious lesion of any young child or adult who presents with a large carious lesion and severe sensitivity. **Super Seal®** penetrates

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through the infected carious tissues to penetrate through the carious debris and upon reaching the deeper peritubular dentin. It immediately chelates with the mineral to form **nano-crystals** that immediately block fluid flow and inhibit bacterial penetration without destroying the remaining normal dentin collagen.