

Composite Core Restorative with Nano-filler

Super White Shade (S298) Tooth Shade (S299)

parkell

STORE THIS PRODUCT TIGHTLY SEALED, AWAY FROM EXTREME COLD (BELOW $39^{\circ}F/4^{\circ}C$), DIRECT LIGHT, OR HIGH HEAT (ABOVE $77^{\circ}F/25^{\circ}C$).

Refrigeration is acceptable but not essential. Do not freeze. Bring chilled material to room temperature before use. Do not store near eugenol-containing materials.

PRODUCT DESCRIPTION

Absolute Dentin® LV is a strong, highly-radiopaque, nano-filled, dual-cured, core composite restorative material. It is manufactured via a process that involves no BisPhenol A (BP-A) or any associated precursors or by-products. The presence of Parkell's nano-filler gives cores constructed with "AD-LV" high compressive, tensile and flexural strength for the most demanding restorative situations. Its flowability provides excellent adaptation to irregularly-shaped post/core preparations, core formers or matrix bands. Cured material "cuts" like dentin with rotary diamond instruments, resisting bur ditching.

Absolute Dentin LV will light-cure to a depth of 3-4mm in 40 seconds with any dental curing device producing light from 430-480nm at an intensity of >600 mW/cm². It will also completely self-cure to any depth in 4-5 minutes at mouth temperature.

INDICATIONS FOR USE

Absolute Dentin LV is indicated for strong composite core restorations or luting of endodontic posts, where a precise shade match is not critical, but high strength is required. Importantly, the process by which we manufacture "AD-LV" involves no BP-A.

CONTRAINDICATIONS FOR USE

Absolute Dentin LV is contraindicated for use on or by persons who are sensitive to acrylates, methacrylates or related monomers.

PARKELL'S ABSOLUTE DENTIN LV INTRO KITS (\$298 OR \$299) ARE SUPPLIED WITH:

- 1 5ml (11gm) hand-squeezed auto-mix cartridge of Absolute Dentin LV dental core composite (no dispensing gun is required for use).
- · Brown-base 1:1 mixing tips (Refill Stock No. S328).
- · Snap-in intra-oral tips (Refill Stock No. S329).
- · Snap-in intra-oral root canal tips (Refill Stock No. S335)
- · Instructions for Use.

AVAILABLE SHADES ARE:

- "Super White Shade" Single Pack (Stock No. S298).
- "Dentin Shade" Single Pack (Stock No. S299).

PHYSICAL PROPERTIES AND WORKING PARAMETERS

Compressive Strength	385 Mpa
Flexural Strength	140 Mpa
Barcol Hardness	75-78
Radiopacity (vs. Aluminum)	150%
Work Time of Self-cure (25°C)	1-2 min
Set Time of Self-cure (37°C)	<=5 min

CLINICAL PRECAUTIONS AND WARNINGS

 The clinical requirements of the patient must be considered prior to selecting any restorative material.

- Absolute Dentin LV is for dental use only, and should be kept away from children.
- The material is not for internal consumption, other than as a cured restorative material
- Contact between this product and sensitive or inflamed human soft tissues (mucosa, eyes, nose, etc.) may cause irritation, dermatitis or inflammatory reactions. If this occurs, discontinue use, flush the area with copious amounts of water and obtain professional medical care.
- Use a rubber dam, proper intra-oral evacuation, and other suitable isolation methods to prevent contamination of restorations by saliva, blood or other fluids.
- This product may generate significant heat when setting in large masses. The amount and timing of this heat depends on the volume of material. Take appropriate steps to cool the material if heat is detected, and do not leave the patient alone during curing.
- After initial use, discard the shipping cap and store the cartridge in a cool, dark place, with the used mixing tip tightly screwed on as a seal.
 Do not replace mixing tip until ready for next use.
- Absolute Dentin LV is sensitive to light. Excessive exposure will shorten working time and result in premature polymerization. Protect restoration from ambient light until ready to light-cure.
- Use of some medicaments (desensitizers, varnishes, liners, products with eugenol) under this material is not recommended, as they may reduce bond strength or inhibit resin curing.
- Avoid contamination of product and packages. Do not mix this product
 with other materials, and do not return dispensed material to its original
 container. Dispose or disinfect all components that contact patient fluids
 following accepted infection control protocols and applicable regulations.
- Do not force the intra-oral tip into the soft tissues, as it is not an injector.
- Working time, setting time, chemical activity and shelf life of the product are estimates. They will vary based upon temperature, humidity, age and storage conditions, among other parameters, and will be reduced if the material is not stored properly.
- Excessive or intense squeezing force on cartridge-dispensing guns may cause gun breakage or cartridge cracking. Slow and steady force is preferred for dispensing these materials.
- Consult the online Safety Data Sheet (SDS) at www.parkell.com for advice on safe handling.

CLINICAL HINTS WHEN USING ABSOLUTE DENTIN LV

- These materials may be used to fabricate core buildups over existing endo posts, or to fabricate "monobloc" restorations where the resins act as the endo post luting agent and the core-buildup material. Obtain appropriate education prior to performing these procedures.
- Compressing the occlusal surface of the material in the matrix band with an alcohol-lubed gloved finger will assure good adaptation between the restorative material and the prep.
- This product will bond to or interact with other resins and some impression materials. Test all materials before using them in conjunction with this material.
- 4. To prevent a temporarily-cemented temporary crown from "locking on" to a prepped resin core, disinfect the prep and lubricate the core with water-soluble lubricant before cementing the temporary prosthesis to the prep. This will prevent leakage and discoloration under the temporary during temporization, and permit easy removal of the temporary crown at the insertion visit.

INSTRUCTIONS FOR USE

PARKELL PRODUCT INFORMATION

ABSOLUTE DENTIN™ Dual-Cure Core Material

	50ml	25ml
Tooth Shade	Stock No. S301	Stock No. S305
Arctic White	Stock No. S300	Stock No. S304
Dispensing Gun	Stock No. S343	Stock No. S306

CAUTION: U.S. Federal Law restricts this material to sale by or on the order of a licensed professional.

STORE IN REFRIGERATOR. AVOID FREEZING.

DESCRIPTION:

Parkell's ABSOLUTE DENTIN™ is a dual-cure, radiopaque composite resin material intended for core fabrication. It is highly filled with a barium/aluminum/fluoride glass and supplied in convenient, 25 & 50ml automix cartridges. The material handles well and "feels" much like dentin when prepared with rotary instruments. ABSOLUTE DENTIN is available in a tooth shade version (similar to A2) and in opaque white so that it can be easily distinguished from surrounding tooth structure. The tooth shade is recommended for use under ceramic or all-composite restorations for best cosmetic results. The material is compatible with all currently available bonding systems including Parkell's 4-META-based bonding agents.

DIRECTIONS:

- 1. Apply preferred dentin bonding agent to properly prepared tooth following instructions for that material.
- 2. Insert AutoMix Cartridge of ABSOLUTE DENTIN into any impression gun that will accept the split style cartridge (e.g. Parkell gun #S343). Remove and discard the sealing cap from the cartridge and before attaching the mixing tip express 3 to 4 mm of core material to ensure an even flow of both base and catalyst pastes.
- 3. Attach and lock a mixing tip onto the AutoMix Cartridge. (If preferred, an intra-oral tip may be inserted at this time.) Now dispense and discard an additional 3-4mm of mixed material to confirm complete mixing of base and catalyst pastes. ABSOLUTE DENTIN is now ready for dispensing onto a prepared tooth.
- 4. Dispense mixed core material onto the tooth that has already received an application of bonding agent. A matrix band may be used to contain the material on the prepared tooth OR if a core former is preferred, fill the form with the core material and press the loaded former onto the adhesively prepared tooth. Leave used mixing tip in place to serve as the sealing cap between uses. (Note: If preferred mixed Absolute Dentin can be expressed through the mixing tip into a Centrix tip for placement with a Centrix gun.)
- 5. The core material will achieve autocure in about 4 minutes. If light curing is preferred, ABSOLUTE DENTIN will reliably cure to a depth of 2mm with a 40s exposure to halogen light. The light initiator is camphorquinone, which has a curing range of between 400 and 520nm, with a peak between 460 and 480nm. A light-curing device that can activate this range will polymerize this material. Check with the manufacturer of your light for its light activation range.
- 6. Once fully cured, prepare the core as usual with rotary instruments of choice.

PRECAUTIONS:

Store in a cool, dry place. For longest life refrigeration is preferred. AVOID FREEZING.

HINTS:

Rubber dam recommended.

Note: To prevent unwanted tip movement when expressing material in the mouth, stabilize the tip with the unoccupied hand.

The material handles best at room temperature, so after removal from the fridge, allow ABSOLUTE DENTIN to warm. Cold material may be difficult to express through mixing tips.

CONTRAINDICATIONS:

It is CONTRAINDICATED for use on or by persons who are methacrylate sensitive. This material should not be swallowed.

WARRANTY:

Parkell will replace defective material. This warranty is in lieu of all warranties of merchantability, fitness for purpose or other warranties, express or implied. Parkell does not accept liability for any loss or damage, direct, consequential or otherwise, arising out of the use of or the inability to use the product herein described. Before using, the user shall determine the suitability of the product for its intended use and the user assumes all risk and liability whatsoever in connection herewith.

Parkell, Inc. - 155 Schmitt Blvd., Farmingdale, NY 11735 USA (631) 249-1134 Fax: (631) 249-1242 • WEB: www.parkell.com • E-Mail: info@parkell.com

