

THE DENTAL ADVISORTM

"Improved Patient Care Through Research"



Photography by John W. Farab, D.D.S., Ph.D., Ann Arbor, Michigan

All-ceramic Bridges

New methods of bridge fabrication using CAD/CAM systems and unique milling techniques have enhanced the options for dentists looking to provide patients with all-ceramic bridges. Types of materials include infiltrated glass cores, pressed lithium disilicates, electrophoretically-deposited alumina and CAD/CAM-milled zirconia and alumina.

Currently, zirconia is the strongest material for all-ceramic bridges. Although the lithium disilicate-based cores (*IPS Eris*, *OPC 3G*) have excellent anterior esthetics, they have more limitations with pontic width and connector height compared to the zirconia-based systems.

This issue of THE DENTAL ADVISOR compares nine all-ceramic bridge systems.

2004

Vol. 21, No. 7
September

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Ratings

Excellent	+++++
Very Good	++++
Good	+++

THE DENTAL ADVISOR

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This seminar is for you if you're...

...a **dentist** interested in learning the latest technologies, techniques, and products in the field of dentistry, or

...a **dental assistant or hygienist** looking to update your knowledge and skills.

Don't miss this chance to join **William A. Gregory, D.D.S., M.S.**, the seminar's *Master of Ceremonies*, along with some of today's top dental experts at **Weber's Inn, Ann Arbor's** venerable landmark, for an informative and fun day of learning, sharing, and networking!

Dentists will spend a full day...

...with seven masters of the dental field, who will share their experience and expertise, as well as state-of-the-art research findings, product information, technology, and techniques. Presentation topics include indirect materials, direct placement composites, hand hygiene agents, bleaching agents, adhesive dentistry, and dental cements!

Hygienists and dental assistants will also enjoy...

...an opportunity to attend a "hands-on" roundtable discussion with three of the area's top dentists. Attend the morning lectures, and in the afternoon learn about the newest composites, bonding systems, bleaching, curing lights, hygiene products, and more in an interactive presentation designed just for you!

All participants will have an opportunity...

...to meet with representatives from nearly a dozen of today's top dental manufacturers, including **3M ESPE, AdDent, Alpha Dental Studios, DENTSPLY/Caulk, GC America, SDS/Kerr, Kuraray America, Nellmar Laboratories, Oracoptic** and **Zenith/DMG!**

November 12, 2004 • Ann Arbor, Michigan

Panavia F 2.0 + + + + +

Kuraray America, Inc.
800.879.1676 • 212.986.2230
www.kuraraydental.com

Description

Panavia F 2.0 is a multi-purpose, dual-cured resin cement. The base and catalyst paste system releases fluoride. A unique feature is the ability to be cured with any halogen, Plasma ARC or LED light. **Panavia F 2.0** is available in four shades: Tooth Color, Light, White and Opaque. The introductory kit includes one 2.3-ml syringe each of **Panavia F 2.0** Paste A and B, one 4-ml bottle each of **ED Primer II** Liquid A and B, **Oxyguard** and accessories in a plastic case.

the **Panavia F 2.0** kit does not include space to store these materials.

Viscosity of Primer

Drops of **ED Primer II** Liquid A and B are easily dispensed. The material wets the tooth structure and thins easily with gentle air.

Dispensing/Mixing Cement

The excellent viscosity of the base and catalyst allows controlled dispensing of both materials. The marks on the syringes provide some indication of the amount dispensed; however, many clinicians would have preferred a single dispenser for the two components to ensure equal amounts of the base and catalyst. The base and catalyst are easily incorporated during mixing.

Viscosity of Cement

The viscosity of the base and catalyst are unaltered when mixed. The excellent viscosity of **Panavia F 2.0** prevents running, yet the cement flows well under pressure.

Working/Setting Time

The dual-cured working time was adequate for most consultants. As the **ED Primer II** accelerates the setting, it is essential to remove excess primer from the post space before cementation. Consultants appreciated the ability to light cure for initial set.

Excess Removal

Excess cement is easy to remove while in the gel state or after initial cure. It is difficult to remove excess from interproximal areas or embrasures after final set.

Usefulness of Multiple Curing Lights

Flash cure – brief 2- to 3-second cure for initial set – was easily accomplished with all halogen and LED lights currently used by the 23 consultants.

Post-operative Sensitivity

No patient sensitivity was reported by any clinicians following the cementation of both ceramic and ceramic-to-metal restorations. ■

EDITORS' EVALUATION

Editors' Comments

- ▶ "Excellent universal adhesive cement."
- ▶ "None of my patients reported any sensitivity following cementation with Panavia F 2.0."
- ▶ "I loved being able to use my LED light to cure the cement rather than having to use a halogen light."
- ▶ "Include alloy primer and silane in the kit."
- ▶ "Supply base and catalyst in a single dispenser."

Suggested Retail Cost

- \$209.00/kit
- \$108.00/introductory kit

Evaluation Protocol

- Twenty-three consultants and editors of THE DENTAL ADVISOR clinically evaluated **Panavia F 2.0** over a 6-week period.
- Over 170 restorations were placed.
- **Panavia F 2.0** was evaluated on a 1-5 rating scale: 1 = poor, 2 = fair, 3 = good, 4 = very good, 5 = excellent.

Editors' Observations

Instructions

The clinical application guide is well illustrated with a clear description of steps. The expanded instructions for use are very thorough.

Completeness of Kit

The kit is well organized and contains materials required to cement most restorations. The silane kit and metal primer are sold separately;

SENIOR CLINICAL CONSULTANTS

E. Alpert, CT
R. Anthony, OH
K. Baker, TX
R. Ciccone, MI
P. Esmond, NY
M. Evans, TN
R. Fisher, OH
G. Franco, NY
P. Grandsire, NY
K. Hamlett, TX
G. Hart, OH
R. Kaprielian, NJ
E. Katkow, MD
L. Katkow, MD
C. Kehr, MI
E. Maitland, NJ
E. Mosso, PA
G. Mosso, PA
D. Peterson, MD
V. Plaisted, NY
W. Powell, TX
G. Poy, MI
G. Sayre, TX
K. Schwartz, FL
B. Shumaker, NJ
B. Sims, NY
A.M. Thompson, NY
R. Trushkowsky, NY
L. Wee, MI

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J. Allen, MI
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R.M. Arnett, MI
R. Averbach, CO
M. Bannan, MI
D. Barnes, MD
F. Berman, PA
M. Beyramian, MI
L. Bishop, MI
J. Bostic, OH
D. Bowen, MI
E. Bowser, PA
H. Bowser Sletten, PA
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M. Briskin, NY
C. Brown, LA
W. Browncombe, MI
H. Buckwald, NJ
D. Chacko, TN
R. Cherry, FL
P. Chiaravalli, MI
T. Chuang, NJ
A. Colarusso, NY
M. Conrad, PA
K. Dancy, GA
M. Danner, IL
J. Dingman, WI
J. DiPonziano, NJ
R. Donelli, NY
R. Dost, VA
J. Doueck, NY
M. Dwoskin, MI
M. Eannaccone, NY
R. Engle, IL
K. Fairbanks, MI
T. Faiver, MI
R. Fay, TX
N. Fehmi, MI
M. Feinberg, NY
J. Fine, NJ
K. Fischer, IN
S. Galster, ND
D. Garber, IL
M. Gay, MI
N. Garlisi, OH
L. Gee, OK
A. Giovanardi, MI
J. Glick, MI
B. Goldsmith, NY
I. Goldstein, NJ
K. Goodman, MI

1SHOT Safety Syringe + + +

Sultan Chemists, Inc.
800.637.8582
201.871.1232
www.sultanchemists.com

Description

1SHOT Safety Syringe is a sterile, single-use disposable injector barrel with a re-usable plunger. It is indicated for use with standard 1.8-ml anesthetic carpules and screw-on needles up to 1 3/8 inches (35 mm) in length for intraoral injections. The barrel contains a release mechanism that allows the needle to be retracted into the barrel, avoiding the need to recap. **1SHOT Safety Syringe** is intended to assist dental offices in compliance with the Needlestick Safety & Prevention Act, which requires employers to annually identify, evaluate and implement safer medical devices. Nineteen consultants used the **1SHOT Safety Syringe** in over 300 procedures.

Suggested Retail Cost

- \$55.00/30 count box
- \$150.00/100 count box

Consultants' Comments

- ▶ "I like the safety feature."
- ▶ "Lightweight and no cold metal on the patient's lips."
- ▶ "Clear barrel allows visualization of the amount of anesthetic remaining in the carpule."
- ▶ "Plastic plunger is corrosion-resistant and cools quickly after autoclaving."
- ▶ "Feels clumsy and has a learning curve."
- ▶ "Difficult to aspirate, need a lot of storage space to store disposable barrels."
- ▶ "Include more than 1 plunger per box."

Product Features

Consultants rated the safety feature of **1SHOT Safety Syringe** highly. However, operating the syringe and changing carpules received lower ratings. The release mechanism was often inadvertently activated or the carpule not fully locked into place. The plunger was durable throughout multiple sterilization cycles. The o-ring style plunger

— as opposed to a harpoon — caused some jerkiness during aspiration. All consultants were using standard metal aspirating syringes in their offices. For many, the difference in handling characteristics of the **1SHOT Safety Syringe** and the additional cost were aspects that would keep them from purchasing this product for their office. Twenty-five percent of consultants rated this product the same as their current syringe system. Only three of the nineteen consultants would purchase this product, and only one would recommend it. ■

Editors' Note — For information regarding the Needlestick Safety & Prevention Act, please see www.osha.gov/needlesticks/needlefaq.html.

3M ESPE Elipar™ FreeLight 2 + + + +

3M ESPE
800.634.2249
www.3MESPE.com

Description

Elipar FreeLight 2 is a cordless LED curing light. It has a higher intensity compared to the original **Elipar FreeLight 1**. The light intensity is about 1000 mW/cm2 with an emission spectrum between 430-480 nm. The peak output is about 460 nm, corresponding to camphorquinone absorption. Preset cure times of 5, 10, 15 and 20 seconds can be selected with a single button on the curing light. Audible signals indicate operational functions and the charging status. The unit utilizes a heat sink instead of a fan to dissipate heat, resulting in silent operation. The unit allows for four minutes of continuous curing before shutting down to cool. Battery life between charges produces approximately 60 cycles of 20-second cures. The curing light weighs about 227 g (8 oz) and has an angled light guide. It can be wipe-disinfected as there are no ventilation slits or protruding buttons. **Elipar FreeLight 2** is packaged with the curing unit and charging base, a large light shield, turbo light



Consultants' Comments

- ▶ "Easy access to cure posterior restorations."
- ▶ "Lightweight and easy to use."
- ▶ "Some difficulty reaching buttons while holding the light."

guide (8 mm) and table holder to prevent the unit from rolling off the counter. Eight consultants used **Elipar FreeLight 2** in 410 clinical cases during a three-month evaluation period.

Suggested Retail Cost

- \$1,350.00

Equipment Features

Most consultants who evaluated **Elipar FreeLight 2** were familiar with LED curing lights. Among the categories rated as excellent were the instructions, portability, ease of disinfection, and the low noise output. Consultants were particularly impressed with the small size and convenience of the curing unit. Accordingly, access to posterior areas in the mouth was not a problem for consultants or assistants. The push button feature enabled easy time selection, although some consultants found the buttons to be difficult to access while holding the light. The audible timing signal was also highly rated. A quality cure was produced. There were no unit failures reported during the evaluation period. Eighty-six percent of consultants found **Elipar FreeLight 2** to be the same or better than their current curing light and 86% would recommend it to a colleague. ■

PeelVue+ + + + +

DUX Dental
800.833.8267 • 805.488.1122
www.duxdental.com

Description

PeelVue+ is a self-sealing disposable autoclave pouch used in steam and chemical sterilization. **PeelVue+** pouches are available in 12 sizes, feature a patented internal processing indicator and are printed with lead-free ink on medical grade, non-recycled paper. The product features a strong seal using dry-edged single-bar seal tape for easy peel and seal (even with gloves). Three pouch sizes were evaluated, 2.25" x 4", 3.5" x 9" and 5.25" x 12". Twenty-four consultants evaluated **PeelVue+** in over 3,000 applications.



Consultants' Comments

- ▶ "Nice variety of sizes."
- ▶ "Internal monitor ensures identification of successful sterilization."
- ▶ "A little expensive, especially for a high volume disposable item."

Suggested Retail Cost

- \$ 9.99/2.25" x 4" (5.7 x 10.2 cm), 200 count
- \$12.75/3.5" x 9" (8.9 x 22.9 cm), 200 count
- \$21.75/5.25" x 12" (13.3 x 30.5 cm), 200 count

Product Features

Consultants evaluated several features of **PeelVue+** including ease of opening and closing the pouches, usefulness of the various sizes, readability and value of the internal indicator, and overall quality of the pouch. Consultants rated all features very highly, and found instruments were easy to identify through the clear plastic side of the pouch. Overall quality of the pouch was also rated very highly. Most consultants were using distributor-brand sterilization pouches in their offices. Thirteen of the twenty-four

consultants would switch to **PeelVue+**, and 92% responded that they would recommend this product. ■

Editors' Note: CDC guidelines currently recommend use of an internal indicator.

What's New?

WCM Waste & Compliance Management, Inc. (866.436.9264, www.wcminc.net) has introduced **Isolyser®/SMS® 2400**, a self-contained sharps management system that allows dental practices to manage primarily sharps and biohazardous waste. The container is partially filled with liquid. The liquid disinfects biohazardous material by generating heat when the catalyst packets A and B, containing inorganic salts and oxides, are added to the water-based monomer solution. The container should be 60% full of submerged wastes and activated 4-5 months after opening.



There are several container sizes available. After activation and curing, the liquid is solidified, encapsulating the waste, making it safe for disposal. Look for the results of a clinical evaluation of **Isolyser®/SMS® 2400** in an upcoming issue of THE DENTAL ADVISOR. ■

What's New?

DENTSPLY/Caulk (800.532.2855) has recently introduced a new LED light called **SmartLite iQ**. It is a portable LED light that is rechargeable and emits light in the range of 430-480 nm. **SmartLite iQ** will hold 600, 10-second cure cycles, and a rapid recharging system will fully recharge the battery in 30 minutes. The LED unit is fan-free and vent-free for optimal sterilization. Look for a clinical evaluation of **SmartLite iQ** in an upcoming issue of THE DENTAL ADVISOR. ■



CLINICAL CONSULTANTS

S. Graber, IL
D. Griggs, OH
J. Grover, MI
B. Gursky, MI
E. Gutman, NY
D. Haas, Canada
H. Hamerink, MI
S. Harden, GA
R. Herwig, KS
M. Hewko, OH
S. Hoekman, MI
S. Hondrum, GA
J. Hoste, MI
M. Hovel, WI
S. Hutt, NJ
P. Indianer, MI
G. Isaacson, NJ
S. Isaacson, NJ
J. Jaghab, MI
N. Johnson, MN
T. Jowett, KS
C. Kamin, OH
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T. Kaminsky, PA
D. Kaplan, NY
M. Kastner, OH
S. Kelly, OH
D. Keren, NY
B. Klym, MI
J. Kostohryz, TX
J. Kotapish, OH
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S. Miller, NV
R. Mizrahi, NY
L. Montes, NY
P. Moratto, MD
M. Morin, MI
S. Munro, WI
W. Nagy, WI
J. Nash, MI
A. Nazarian, MI
J. Neme, MI
L. Neuberger, ND
C.J. Noe, MD
E. Odenweller, OH
R. Oshrain, NY
J. Paris, TX
D. Parris, GA
R. Parrott, CA
D. Parsons, NY
M. Patel, MI
T. Paumier, OH
L. Perratto, NY
S. Picazio, NJ
T. Pieper, WY
D. Pietz, NC
W. Piskrowski, MI
D. Pitak, MI
M. Pitzon, WA
D. Powers, MI
L. Pozarny, NY
C. Price, TX
D. Qualliotine, NC
G. Raichelson, Canada
S. Ratner, NY
R. Reichl, NC

DentalEZ® J-Chair® with Galaxy™ Delivery System + + + +

DentalEZ Group
866.383.4636
www.dentalez.com

Description

DentalEZ J-Chair, Galaxy Euro Style Delivery System, Lumina™ Light, Premium Doctor's Stool and **Premium Assistant's Stool** were evaluated. This is a list of features evaluated; however, it is not a list of all the available options.

J-Chair

- Head support is continuous with the chair back
- Magnetic headrest
- Back, exclusive seat tilt and base positions adjust independently
- Chair position controls on both sides of the chair back
- Chair arm and sling reclines with the patient
- Chair swivels 15 degrees to either side
- Visual display signals (LED codes) and audible signals for self-diagnosis of malfunction
- Base-lowering safety mechanism automatically stops the chair when it encounters an obstruction during lowering
- Airglide feature for easy floor positioning (optional)
- Suggested Retail Cost – \$7,800.00

Galaxy Euro Style Delivery System

- Euro-style delivery system refers to hoses placed in a whip arm over the docking station
- Delivery arm is fully adjustable and the air lock holds the vertical position of the system
- 3 handpiece and 1 air/water syringe connections (standard)



Consultants' Comments

- ▶ *"Patients appreciated the smooth plush upholstery."*
- ▶ *"Easy access to water volume and electric handpiece controls."*
- ▶ *"Angle of the delivery system creates comfortable distance between patient's chest and bottom of delivery cart."*
- ▶ *"Excellent illumination with Lumina Light."*
- ▶ *"One of the most comfortable assisting stools I have used."*
- ▶ *"Patients had to reposition when reclined to maintain head in headrest and gain lumbar support."*
- ▶ *"Reduce angle of swing arms for handpiece controls."*

- Electric handpiece integrated into delivery system with digital display of mode and operating speed (optional)
- Delivery system arm is attached to the chair at the base and rotates 180 degrees for full left and right operation
- Water spray volume controls located directly below each line
- Chair position controls on both sides of delivery system (optional)
- Telescoping assistant's arm is adjustable vertically and horizontally with 4 docking cradles (optional)
- Suggested Retail Cost – \$7,720.00

Lumina Light

- Overhead dental unit/operator light
- Color-corrected illumination
- Long articulating arm with 3 axis field of movement
- Adjustable manual or infrared sensor for on/off command
- Suggested Retail Cost – \$1,850.00

Premium Doctor's Stool

- Pear-shaped backrest with in-out adjustment
- Dual-wheel castors
- Vertical and tilt seat with 2-way adjustment

- Gas cylinder-controlled height adjustment
- Suggested Retail Cost – \$565.00

Premium Assistant's Stool

- Left-right torso support with 360-degree rotation and safety lock
- In-out adjustable backrest (optional)
- Dual-wheel castors
- Heel ring
- Gas cylinder-controlled height adjustment
- Suggested Retail Cost – \$665.00

Equipment Features

J-Chair

- + Dual chair position controls are readily accessible and easy to use
- + Thin chair back is wide at base for support and tapers toward the head to allow optimum access to the oral cavity
- + Independent adjustments of exclusive seat tilt, base height and reclining back rest enable operator to properly position patient while maintaining patient comfort
- + Reclining chair arms and slings provide support and are easily articulated upward to allow patient to enter/exit
- Long chair back with high headrest platform; most patients must reposition as chair reclines
- Armrests and slings a bit large for use with children

Galaxy Euro Style Delivery System

- + Easy to adjust and lock vertical and horizontal position

- + Touch pad controls and digital display for electric handpiece easy to use
- + Telescoping, articulating assistant's arm allows optimum positioning
- + Position of water spray volume toggle switches allows easy adjustment and clear identification of specific handpiece line
- Arms supporting the hoses are set at a steep angle reducing hose length
- Foot control requires firm pressure to achieve full pressure

Lumina Light

- + Excellent light intensity and color-corrected illumination
- + Convenient on/off infrared sensor
- + Sensor easily turned off for those who prefer manual toggle switch
- + Consistent light pattern even with obstruction by operator
- Multiple points of articulation can result in difficulty maintaining proper orientation

Premium Doctor's Stool

- + Easily adjustable
- + Plush cushion
- + Very good back support
- + Smooth glide on castors

Premium Assistant's Stool

- + Very easy to adjust height for proper positioning
- + Front support is designed with proper length and curve for optimum support
- + Optional back support preferred by consultants ■

ALLSolutions® + + + + 1/2

DENTSPLY Professional
800.989.8826 • 717.767.8500
www.professional.dentsply.com

Description

ALLSolutions is a fluoride foam for professional topical application. Consultants evaluated the 1.23% APF (Mint and Berry-Cherry flavors) and 2% neutral sodium fluoride (Mint and Peach flavors) non-aerosol foam. The fluoride is dispensed from an 8.45-oz clear bottle supplied with a pump, which aerates the liquid into foam. The foam provides up to 160 dual-arch tray applications. Treatment time is 1 minute. **ALLSolutions** is also available in a 5%

sodium fluoride varnish, 1.23% APF or 2% neutral sodium fluoride gel, or 2% neutral sodium fluoride rinse. **ALLSolutions** was evaluated by 25 consultants and their hygienists in over 800 applications.

Suggested Retail Cost

- \$31.15/bottle

Product Features

Of the consultants who evaluated **ALLSolutions**, just over half were



Consultants' Comments

- ▶ *"Extremely easy to use."*
- ▶ *"Easy to evacuate from the patient's mouth."*
- ▶ *"Our hygienists loved this product!"*
- ▶ *"Berry-Cherry was the most popular flavor."*

currently using a foam fluoride in trays; the remainder were using a gel in trays or brush-on gel. Categories rated as very good to excellent were packaging and ease of using the pump. Consultants liked the foam consistency and several commented favorably about the

clear bottle, which lets the user see how much material remains. Consultants found both the 1.23% Acidulated Phosphate and 2% Neutral Sodium Fluoride foams to be useful. Eighty-eight percent of consultants found the taste to be acceptable, and it had very good patient acceptance. Overwhelmingly, the most popular flavor was found to be Berry-Cherry. When comparing **ALLSolutions** to their current fluoride foam or gel, 88% of consultants rated **ALLSolutions** the same or better. Eighty-two percent of consultants indicated that they would purchase **ALLSolutions** and the same percentage would recommend it to a colleague. ■

CLINICAL CONSULTANTS

G. Reskakis, NY
C. Rice, MA
J. Riggs, MI
R. Ritter, FL
J. Robison, MI
M. Rogers, PA
W. Roper, TX
F. Ross, WI
K. Ross, MI
K. Rowan, MO
R. Sambuchi, MI
A. Sandak-Albright, NY
P. Sandvick, WI
D. Schimmel, PA
G. Schultz, PA
J. Sedlock, WI
R. Shah, MI
J. Shea, MO
J. Sinkwits, MI
T. Slade, MI
R. Smith, NY
S. Smith, FL
M. Sonne, MI
J. Spingarn, FL
D. Stutman, NY
K. Swearingen, OH
M. Sylvester, CA
P. Symeonides, NY
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H. Talman, OH
F. Tom, MA
R. Tonelli, WI
R.W. Toothaker, NE
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S. Ura, NH
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L. Walsh, MI
M. Waranowicz, MI
M. Warshanna, MD
J. Weissman, NY
R. Wilkie, MI
S. Williams, MO
R.G. Willis, SC
M. Wilson, MI
R. Wolf, IN
F. Wood, PA
H. Yeung, CA
S. Young, NY
M. Zahn, MI
P. Zanetti, MI
G. Zann, FL
S. Zimmer, MI

LABORATORY CONSULTANTS

Alpha Dental Studio, MI
Armstrong Laboratory, KY
D.H. Baker Dental Laboratory, MI
Davis Dental Laboratory, MI
Dental Prosthetic Services, IA
Dickerson Dental Studio, Inc., OH
Edmonds Dental Prosthetics, MO
Gnathodent Lab Corp., NY
Harmony Dental Laboratory, MD
Nellmar Laboratory, LLC, MI
New Image Dental Laboratory, GA
Noble Craft Prosthetics, Inc., NY
Oral Arts Dental Laboratory, GA
Ramsey Dental Ceramics, MI
Scullin Dental Laboratory, OH

SensiTemp® ZOE + + + +

Sultan Chemists, Inc.
800.637.8582
201.871.0321
www.sultanchemists.com

Description

SensiTemp ZOE (Zinc Oxide Eugenol) is a white, opaque temporary cement that contains eugenol. It also contains potassium nitrate, reported to alleviate sensitivity. The material is available in either a 25-ml automix cartridge with 15 mixing tips or an 8-g dual-barrel syringe with 10 mixing tips. Both dispensing systems are designed to minimize clean-up and aid in cement placement. The material has a working time of 90 seconds and set time of 2-3 minutes from the start of mixing. **SensiTemp ZOE** was used by 39 consultants in 347 cases.

Suggested Retail Cost

- \$37.00/8-g syringe with 10 mixing tips
- \$84.00/25-ml automix cartridge with 15 mixing tips

Product Features

Most of the consultants who evaluated **SensiTemp ZOE** were routinely using a zinc-oxide, non-eugenol-based temporary cement. Among the categories rated as very good to excellent were the instructions, packaging and ease of use. The material was found to have a smooth consistency and an acceptable setting time. Excess cement is very easy to remove. Many



Consultants' Comments

- ▶ *"Makes for easy clean-up!"*
- ▶ *"I like having the eugenol for the few cases when you need it."*
- ▶ *"The syringe system is neater and less wasteful."*
- ▶ *"Mixing through the tips was sometimes incomplete."*
- ▶ *"With the cartridge system the cement continues to ooze from the mixing tip after use."*

consultants noted that the material was easily cleaned off the preparation before final cementation. Post-operative sensitivity was not found to be a problem. A few consultants noted that the material was not as retentive as their current temporary cement. The delivery system was easy to use, yet the mixing tips were found to incompletely mix the material in a few instances. This may have contributed to the retention failures and a slower setting time. Sixty-four percent of consultants found **SensiTemp ZOE** to be the same or better than their current temporary cement. Forty-seven percent would purchase it themselves, and 60% would recommend it for use by a colleague.

Clinical Tips

- Material can be hand-mixed to save mixing tips and insure complete mixing.
- Eugenol-containing cement should not be used if resin cement will be used for the final restoration because eugenol inhibits the set of resins. ■

SensiTemp® NEZO + + + +

Sultan Chemists, Inc.
800.637.8582 • 201.871.0321
www.sultanchemists.com

Description

SensiTemp NEZO is a Non-Eugenol Zinc Oxide-based temporary cement designed for use with provisional restorations. **SensiTemp NEZO** contains potassium nitrate for reduced sensitivity. The material has a working time of 90 seconds and final setting time of 2-3 minutes. The cement is opaque white in color and is automixed, available in either a 25-ml cartridge for use with a dispensing gun, or 8-g dual-barrel syringe. Fifteen mixing tips are included with the 25-ml cartridge, 10 with the hand syringe. Forty-eight consultants used



Consultants' Comments

- ▶ *"Easy to mix and dispense into temporaries."*
- ▶ *"I like the lack of eugenol taste and smell."*
- ▶ *"Material is a bit sticky, hard to clean up."*
- ▶ *"Several temporaries came off."*

both delivery systems of **SensiTemp NEZO** for the temporary cementation of over 500 provisional restorations.

Suggested Retail Cost

- \$37.00/8-g syringe with 10 mixing tips
- \$84.00/25-ml automix cartridge with 15 mixing tips



KaVo SMARTair + + + +

KaVoAmerica Corp.
888.528.6872 • 847.550.6800
www.kavousa.com

Description

The **KaVo SMARTair** is a single-workstation dust extraction system for the laboratory or operator. It is available as an integrated (built-in) or flexible (mobile) unit and offers four power levels of suction. The "plus" model includes a micro-filter designed for the filtration of carcinogenic material. The standard model is reported to remove 99.9% of dust smaller than 2 µm and the "plus" model's micro-filter is reported to remove 99.995% of particles smaller than 1 µm. The optional activated charcoal filter also removes monomer



Consultants' Comments

- ▶ *"Excellent suction."*
- ▶ *"Glass remains clear from debris, insures eye protection and provides ideal visualization of work space."*
- ▶ *"Less noise than other systems I have used."*
- ▶ *"A longer duration for the automatic on/off timer would be beneficial."*

odors. **KaVo SMARTair** may be connected to any laboratory handpiece and turns on and off automatically when the electric handpiece is used. A manual switch on the unit turns it on independently of the handpiece. A variety of suction hoods and face-protecting safety shields are available. Filter bags are disposable and can be sent to recycling companies to reclaim any trapped precious metals. The **KaVo SMARTair Plus** automatically shuts off when the filter is full. Nine consultants evaluated the **KaVo SMARTair** during a six-month evaluation period.

Suggested Retail Cost

- \$1,425.00 and up

Equipment Features

KaVo SMARTair provides excellent suction of laboratory debris. The automatic on/off is easily activated and convenient for quick procedures. The manual on/off provides continuous suction if not used with an electric handpiece. The instructions for use and information on features are clear and concise. The filter is easy to monitor and change. The clear glass safety shield is well designed, providing excellent protection from debris, minimizing glare and maintaining surface clarity. The optional magnification lens is attached to the glass shield, providing excellent visualization of the procedure. One hundred percent of evaluators said they would both purchase and recommend the **KaVo SMARTair**. ■

Product Update

The May 2004 issue of THE DENTAL ADVISOR, Vol. 21-4, pg 8, featured an article on **EcoTru Professional** disinfectant/cleaner and instrument presoak (Crosstex International – 800.223.2497). The solution is described as bactericidal, virucidal, fungicidal and tuberculocidal against a broad spectrum of organisms. The article stated that a 5-minute exposure is suggested as a minimum application time. While **EcoTru Professional** is effective against TB, Hepatitis B, Hepatitis C and HIV in 5 minutes, 2-minute and 10-minute contact times are indicated for other microorganisms. A complete list of organisms and contact times can be found on the Crosstex International website (www.crosstex.com) as well as on the product label. **EcoTru Professional** is EPA approved and all stated information relative to organisms and contact time has been approved by the EPA. ■



Tokuyama Dental Corp./J. Morita USA
800.831.3222 • 949.581.9600
www.jmoritausa.com

Description

Palfique Estelite LV is a flowable composite produced in three viscosities and several popular VITA shades: High Flow – A1, A2, A3; Medium Flow – A1, A2, A3, A3.5; and Low Flow – A1, A2, A3. Clear and opaque shades are also available. Like **Palfique Estelite**, a universal-use composite, it is filled with a spherical, submicron particle (0.1-0.4 mm). **Palfique Estelite LV** is packaged in 3-g syringes with disposable tips for direct placement. Twenty-four consultants participated in this evaluation in over 550 clinical cases.

Suggested Retail Cost

- \$33.00/1 syringe + 15 tips

Product Features

Consultants cited ease of dispensing, placement and trimming/finishing as excellent characteristics of the material. The variety of viscosities was a unique feature that consultants found very useful. The usefulness of the shades and the chameleon effect of matching a tooth color were highly rated. Quality of final finish was excellent, and there were no reported problems with the variety of bonding systems used. Ninety-six percent of consultants



Consultants' Comments

- ▶ "I get to choose the viscosity for the case."
- ▶ "The syringe application works well."
- ▶ "Shades blend well with the teeth."
- ▶ "The esthetics of all 3 viscosities are good."
- ▶ "Stays where I put it – no slumping."
- ▶ "I'd like a few more shades."

rated the **Palfique Estelite LV** as good as or better than their current flowable. Ninety-seven percent of consultants reported that they would both switch to the **Palfique Estelite LV** and recommend it to colleagues.

Clinical Tips

- The opaque flowable worked well as a blackout.
- The clear flowable can be used to coat the tooth surface without altering the shade.
- Use several drops of the high flow, each with a short cure, to obtain excellent adaptation to the tooth surface. ■

Upcoming Evaluation

Insure Universal Cementation System, produced by Cosmedent, Inc. (800.621.6729), has been available since 1987 and has recently been enhanced. Reformulations of the product over the past two years have resulted in increased radiopacity, an additional low-viscosity option, a dual-cured catalyst in two viscosities, and try-in gels conforming to the cement shades. Also improved is the dispensing system with disposable tips for easier application to indirect restorations. The system, which functions as a complete resin cementing system for veneers, crowns, inlays/onlays, and bridges, now includes two viscosities of cement (**Insure**, **Insure Lite**) in seven shades, a dual-curing catalyst in two viscosities (**Simulcure**), matching try-in gels (**Prevue**), and six color modifiers. Look for a clinical evaluation of **Insure** in an upcoming issue of THE DENTAL ADVISOR. ■

ADA 04 Orlando

October 1-3, 2004
THE DENTAL ADVISOR
Booth #1374

THE DENTAL ADVISOR cordially invites you to join us at the American Dental Association Annual Meeting, October 1-3, 2004, in Orlando. Visit us at booth #1374 in the heart of the Dental Services section of the ADA Marketplace. Take advantage of our show discount to renew your subscription to THE DENTAL ADVISOR for 30% off the regular price by stopping by our booth. Speak directly to our knowledgeable staff about Dr. Farah's Preferred Products, upcoming features, new products on the market, back issues, upcoming lectures and meetings, and so much more! Share your thoughts and ideas on future topics, or ask a question of the editors. We look forward to seeing you!