

PRODUCT CATALOG

JenDental-Ukraine LLC



Scientific search and introduction of innovations!



JenDental
UKRAINE

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DEAR CUSTOMERS!

The products of **Jendental-Ukraine** company are well-known in the modern dentistry. Many of you use them for years and receive excellent predictable results. In hope that it will help to pick up the materials for clinical practice effectively and correctly we would like to submit this catalog to those who are facing these products for the first time and want to enlarge the range of applied materials.

The main postulate of the company is to produce the innovative and high-quality products at the very reasonable prices. **Jendental-Ukraine** is supplied with raw materials only from the leading producers of USA, Germany, Great Britain and Japan. The polymeric resins and fillers



of the highest extent of purity (gradations “stomatology” and “ophthalmology”) are used for production of dental materials. On the other hand, the cost of these products does not include the expenses for promotion of the brand in the markets of the USA and Western Europe. It allows to reduce the prices significantly as the consumer is offered to pay only for quality and exclusively pure materials. Such approach is especially important for those countries where the considerable part of the population is not able to pay for treatment with very expensive dental materials. Due to such policy of **Jendental-Ukraine** company, treatment with high-quality dental materials becomes available for larger number of people.

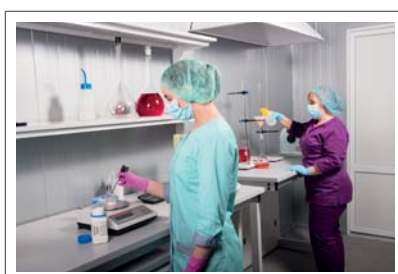
Another special approach of the company is permanent scientific researches and implementation of innovations. Many dentists have appreciated the clinical advantages of “invisible” pins - Jen-EsthePost and of flowable composite - Jen-LC Flow. The palette of the composite material Jen-Radiance has four degrees of opacity and 40 various colors and shades!

Such a wide range of materials allows the dentists to realize all possible modern restoration techniques – from the elementary (with one universal shade) to the most difficult multilayered stratification technique, which demands the skillful use of materials with numerous optical properties.



The newest nano-hybrid composite Jen-Favorite LC is the next company's step towards the dentists needs. It combines the improved handling properties with very high esthetic and mechanical characteristics. This combination can really facilitate your work and bring the new advantages to your dental practice! Look for these and other innovations!

Visit the website of the company: www.jendental-ukraine.com



We wish success and health to you and your patients!

JEN-FAVORITE LC

Multipurpose modern nano-hybrid composite restoration material of high aesthetics



Jen-Favorite LC is a multipurpose restoration composite with a unique TRIMODAL filler. Nano-hybrid formula provides Jen-Favorite LC with excellent aesthetic properties, perfect polishability and improved manual properties as well as outstanding mechanical and physical characteristics such as X-ray contrast, fracture strength, compressive strength and tensile strength.

INDICATIONS FOR USE:

- High-aesthetic restoration of cavities of class I, II, III, IV and V.
- Making of inlays and onlays.
- Sandwich technology.
- Splinting.
- Stump modeling.

PRODUCT BENEFITS:

- Jen-Favorite LC is a combination of well-selected transparent, translucent and opaque materials that guarantees excellent aesthetics of the restorations.
- Jen-Favorite LC allows to successfully carry out restorations both on anterior and posterior teeth.
- The fluorescence spectrum of the material is close to that of protein of natural teeth which allows to make restoration of the highest level taking into account all modern aesthetic requirements.
- The material has an outstanding chameleon effect which allows to disguise it well in the cavity.
- The material has excellent polishability providing restorations with natural aesthetics.
- Jen-Favorite LC has excellent manual qualities, the material is plastic and does not stick to a tool.
- High aesthetic and optical qualities of the material allow to make the restoration according to a classical technique and the technique of layer-by-layer application (the «stratification» method).



IMPROVED MANUAL PROPERTIES:

- When developing the material special attention was paid to the improvement of its manual qualities. Jen-Favorite LC is quite plastic and at the same time holds its shape well even when

heated to the temperature of the human body. At the same time the material does not stick to the tool which allows to apply it easily and quickly and adapt it to the cavity.

PACKING

Jen-Favorite LC in 4 g syringes:

- Cutting edge: I (Incisal)
- Enamel shades: A1-E; A2-E; A3-E; A3,5-E; B1-E; B2-E; C2-E
- Shades of dentin (the body of the tooth): A1-D; A2-D; A3-D; A3,5-D; A4-D; B1-D; B2-D; C2-D
- Opaque shades (for disguising the areas with strong discoloration): WOP (White Opaquer), UO (Universal Opaquer), LOP (Light Opaquer).

Jen-Favorite LC in sets of 4, 6, 7 and 12 syringes.



JEN-FAVORITE LC

MAIN CHARACTERISTICS:

- **TRIMODAL NANO-HYBRID FILLER** consists of non-agglomerated nano-sized radiopaque glass, non-agglomerated nano-sized silicon oxide and clusters of agglomerated nano-sized glass and nano-sized silicon oxide in a special matrix of methacrylate resins, granulated and polymerized with use of a special technology.
- The content of inorganic filler in the material is about 75%.
- Jen-Favorite LC contains several types of UDMA resin and other methacrylate monomers and oligomers.



Restoration with JEN-FAVORITE LC



Dr. Tatiana Litvin

Practicing dentist, professional consultant of the company "JenDental-Ukraine", private practice, Kiev.

CLINICAL CASE OF Dr. TATIANA LITVIN

A patient came to the clinic with a complaint of the unsatisfactory condition of the restorations of anterior teeth of the upper jaw. After medical examination it was found out that the teeth 1.2; 1.1; 2.1; 2.2 had photopolymer fillings with changes in color, dislocation of marginal fit and secondary caries.

Pic. 1, 2. Initial situation.

Pic. 3, 4. After removal of fillings out of teeth 1.2; 1.1 endodontic retreatment of these teeth was carried out.

Pic. 5. Before the beginning of the restoration impressions of both jaws were taken and a silicone mold was made.

Pic. 6. Then the etching of enamel for 30 seconds and of dentin (15 seconds) with orthophosphoric acid was carried out.

Pic. 7. Applying and rubbing of the adhesive onto the tooth surface. Light-curing.

Pic. 8. The first step in the restoration of the teeth was the creation of palatal surfaces according to a silicone mold, application of Jen-Favorite LC shade A1-E onto the silicone mold, fitting and adaptation of Jen-Favorite LC onto the palatal surface of the teeth with the help of the brush with modelling resin Jen-Radiance WA and its light-curing for 20 seconds on each tooth.

Pic. 9. After removal of the silicone mold light-curing of the palatal surfaces of these teeth was carried out during 20 seconds for each tooth.

Pic. 10. Then the approximate surfaces were restored with enamel shade of Jen-Favorite and the teeth were restored according to the stratification technique: selected shade +2,5. That is the original tooth color is A1, so the first opaque layer was a shade darker - A3,5-D. This layer was applied closer to the neck of the tooth. After that opaque shades A3-D, A2-D were applied on the tooth body. A1-D opaque was applied onto the areas closer to the cutting edge and onto mamelons. A1-D opaque was applied with constant condensation of the brush with Jen-Radiance WA for better adhesion of the layers.

Pic. 11. The final modeling of the vestibular surfaces of these teeth was carried out with Jen-Favorite LC A1-E and A2-E enamel shades with use of Jen-Radiance WA modeling resin.

Restoration with JEN-FAVORITE LC



Pic. 12. After that the correction of occlusion in restorations, grinding with Jiffy Polishing and polishing by the brush Jiffy Goat Hair (Ultradent) with Diamond Polish (UD) polishing paste were carried out. The next step was - covering the restorations with Perma-Seal (UD) for improved gloss of restorations.

Pic. 13. The final view of restoration after grinding and polishing.

Pic. 14. The final view of restoration two weeks after all restoration procedures.



JEN-RADIANCE

Universal composite material for high-aesthetic restorations



Jen-Radiance is a universal microhybrid composite with a unique bimodal filler (average particle size is 0.4 - 0.7 μ m for the main filler and 0.02 - 0.04 μ m for the nanofiller, the fullness by weight is 79%). The material combines excellent aesthetics and polishability of nanocomposites, and outstanding physical characteristics of the microhybrid composite

INDICATIONS FOR USE:

- Highly esthetic restorations of I, II, III, IV and V cavities.
- Onlay and Inlay.
- "Sandwich" technique.
- Tooth Splinting.
- Crown modeling.

PRODUCT BENEFITS:

- Material fullness is 79% by weight, with an average particle size of bimodal filler:
 - main radiopaque phase – 0.4-0.7 microns;
 - nanophase – 20-40 nm (nanometers).
- Excellent polishability due to specified filler.
- Excellent manual qualities – the material is plastic and does not stick to the tool.
- High aesthetic and optical qualities – the material allows to make classical technique restorations as well as the restoration of layer-by-layer technique (the "stratification" method).
- Shades of the material have four degrees of opacity:
 - transparent (most clear);
 - enamel;
 - opaque (dentin shades);
 - superopaque (for cavities with high discoloration of dentin).
- High physical characteristics of the material, in particular:
 - bending strength – 115-125 MPa;
 - compressive strength – 410 MPa.
- The fluorescence spectrum of the material is close to the fluorescence spectrum of the protein of natural teeth, which allows to make restoration of the highest level when all modern requirements of aesthetics are taken into account.
- The material has a pronounced "chameleon" effect which allows it to be masked in the cavity due to internal reflection and dispersion of light.



PACKING

Jen-Radiance in syringes of 4 g:

- 6 transparent Shades: IOP, I, OR (Opal Rosy), OY (Opal Yellow), OBL (Opal Blue), OG (Opal Gray);
- 13 enamel Shades: A1-E, A2-E, A3-E, A3.5-E, A4-E, B0.5-E, B1-E, B2-E, B3-E, C2-E, C3-E, D2-E, D3-E;
- 13 opaque (Main dentin) Shades: A1-O, A2-O, A3-O, A3.5-O, A4-O, A5-O, B1-O, B2-O, B3-O, C2-O, C3-O, D2-O, D3-O;
- 8 super opaque Shades: A1-SO, A2-SO, A3-SO, B2-SO, UO (Universal Opaquer), SWOP (Super White Opaquer), WOP (White Opaquer), OBR (Opaquer Bright).
- **Jen-Radiance** in sets of 4, 6, 7 and 12 syringes.

Restoration with JEN-RADIANCE



Dr. Tatiana Litvin

Practicing dentist, professional consultant of the company "JenDental-Ukraine", private practice, Kiev.

CLINICAL CASE OF Dr. TATIANA LITVIN

A patient came to the clinic with a complaint about the irregular shape of the teeth of the upper and lower jaws. Teeth 12; 11; 21; 22; 32; 31; 41; 42 have abrasion of irregular shape as a result of malocclusion and a bad habit in the past (eating sunflower seeds).



Initial situation. Teeth have abrasion of irregular shape as a result of malocclusion and a bad habit.



Preparation of teeth 12; 11; 21; 22.



Etching of enamel with orthophosphoric acid Phospho-Jen AS for 30 seconds. Etching of dentin for 15 sec.



Applying and rubbing a single-component Jen-Unibond adhesive into the tooth surface.



Teeth are restored according to direct restoration technique with Jen-Radiance. Dentin shade A3-O is used in the area of the tooth neck, the whole body of the tooth is restored with dentine shade A2-O and the overlap was made with the enamel shade A1-E.



The initial state of the front teeth of the lower jaw.



Preparation of teeth 32, 31, 41; 42. A cofferdam system was used to isolate the area of treatment.



Fitting and adaptation are carried out with use of silicone adapter moistened with Jen-Radiance WA modeling resin.



Restoration of the teeth of the frontal mandible group was carried out according to the same protocol.



View of restoration after grinding and polishing with Diamond Polish polishing paste and subsequent coating with sealant PermaSeal to protect the restorations from food dyes and "wet gloss".



Restoration with JEN-RADIANCE



Dr. Yekaterina Okhotskaya
Practicing dentist, private practice,
Kiev, Ukraine.

CLINICAL CASE FROM THE PRACTICE OF Dr. YEKATERINA OKHOTSKAYA

Irina, 28, came with the complaints of the large gaps between the teeth, food stuck, cutting edge defects in the 11th and 41st teeth due to the harmful habit of gnawing sunflower seeds. **Purpose:** to improve aesthetics and functionality.



1
Initial situation: teeth have tremors and diastema on the upper and lower jaws.



2
Minimally invasive preparation of the 21st tooth.



3
For conditioning the surface of the tooth, 37% phosphoric acid Phospho-Jen AS is applied.



4
Application and distribution of Jen-Unibond adhesive with a brush. Active rubbing of the adhesive into the tooth tissue.



5
Application of Jen-Radiance B0.5-O and B0.5-E on the vestibular surface and modeling of anatomical structures.



6
View of a modeled tooth on the background of other teeth.



7
Restoration of 11, 12, 21-d teeth.



8
Final polishing of four upper central incisors.



9
Preliminary preparation of 31, 32, 33, 41 and 42 teeth (left view).



10
Restoration of the medial-approximal wall of the 33rd tooth with the help of the composite Jen-Radiance B0.5-E (left).



11
The view of finished restorations after finishing polishing and grinding.



12

COMPLETE SET OF JEN-RADIANCE KITS

Composite restorative system Jen-Radiance



Dr. Vadim Zagorodniy
Practicing dentist, private practice,
Khmelnitsky, Ukraine.

CLINICAL CASE IN THE DENTAL PRACTICE OF Dr. VADIM ZAGORODNIY

Patient M, 19 years old. Loss of tooth 21 as a result of trauma. Implantation is planned. Temporary rehabilitation with the help of an adhesive bridge prosthesis. It is the

opportunity to study the aesthetic properties of the material Jen-Radiance when restoring the front teeth. Opal and enamel shades of the material as well as opalescent shades for

the cutting edge were used. The construction was made with the help of fiberglass tape Interlig (Angelus).



	▼ Name of the kit	▼ Shades in the kit	▼ Quantity of material in the kit
12-SYRINGS	JEN-RADIANCE JR+M, 12x EFF Kit	Jen-Radiance – A2-E x 2 syr, A2-O x 2 syr, A3-E x 2 syr, A3-O x 2 syr, UO, I Jen-Radiance Molar U (Universal) - 2 syr.	12 syringes of 4 g. / Total - 48 g.
	JEN-RADIANCE JR+M, 12x OPTI Kit	Jen-Radiance – A2-E x 2 syr, A3-O x 2 syr, A2-O, A3-E, A3.5-O, B1-E, B2-E, B2-O, UO, I (Incisal) / Jen-Radiance Molar U (Universal)	12 syringes of 4 g. / Total - 48 g.
	JEN-RADIANCE JR, 12x EST Kit	Jen-Radiance – A1-E, A2-E, A2-O, A3-O, A3-E, A3.5-O, B2-O, B2-E, B1-E, UO, I, SWOP (Super White Opaquer)	12 syringes of 4 g. / Total - 48 g.
	▼ Name of the kit	▼ Shades in the kit	▼ Quantity of material in the kit
7-SYR	JEN-RADIANCE JR Combi Kit, 7x Kit	Jen-Radiance – A2-E, A3-E, A2-O, A3-O / Jen-Radiance Molar U (Universal) Jen LC-Flow – A2, A3 (syringes of 3 g) / Jen-Unibond (bottle of 6 g) Phospho-Jen AS (syringe of 5 ml)	5 syringes of 4 g. + 2 syringes of 3 g. Total - 26 g. + adhesive and etching gel
	▼ Name of the kit	▼ Shades in the kit	▼ Quantity of material in the kit
6-SYRINGS	JEN-RADIANCE JR+M, 6x Kit #3	Jen-Radiance – A2-E, A2-O, UO, A3-E, A3-O, Jen-Radiance Molar U (Universal)	6 syringes of 4 g. / Total - 24 g.
	JEN-RADIANCE JR, 6x Kit #4	Jen-Radiance – A2-E, A2-O, UO, A3-E, A3-O, I (Incisal)	6 syringes of 4 g. / Total - 24 g.
	JEN-RADIANCE JR+M, 6x Kit #5	Jen-Radiance – A1-E, A1-O, A2-E, A2-O, UO, Jen-Radiance Molar U (Universal)	6 syringes of 4 g. / Total - 24 g.
	JEN-RADIANCE JR Bleach Kit, 6x Kit #7	Jen-Radiance – A1-O, B0.5-E, B1-E, B1-O, WOP, SWOP	6 syringes of 4 g. / Total - 24 g.
	▼ Name of the kit	▼ Shades in the kit	▼ Quantity of material in the kit
4-SYRINGS	JEN-RADIANCE JR, 4x Kit #1	Jen-Radiance – A2-E, A2-O, A3-O, A3-E	4 syringes of 4 g. / Total - 16 g.
	JEN-RADIANCE JR+M, 4x Kit #2	Jen-Radiance – A2-E, A3-O, UO, Jen-Radiance Molar U (Universal)	4 syringes of 4 g. / Total - 16 g.
	JEN-RADIANCE JR+M, 4x Kit #6	Jen-Radiance – A1-E, A1-O, UO, Jen-Radiance Molar U (Universal)	4 syringes of 4 g. / Total - 16 g.
	JEN-RADIANCE JR A2 Full Optical, 4x Kit #8	Jen-Radiance – A2-E, A2-O, A2-SO, I (Incisal)	4 syringes of 4 g. / Total - 16 g.
	JEN-RADIANCE JR A3 Full Optical, 4x Kit #9	Jen-Radiance – A3-E, A3-O, A3-SO, I (Incisal)	4 syringes of 4 g. / Total - 16 g.



JEN-RADIANCE MOLAR

Highly Filled Composite for posterior teeth



Jen-Radiance Molar is a light-cured, radiopaque fluoride-containing composite restorative material. It is intended for sealing of I and II class cavities. Jen-Radiance Molar possesses high degree of transparency and very low shrinkage at polymerization (1.63%) which makes it possible to draw it by layers up to 5 mm thick with the minimum polymerization stress. The material is very soft, can be perfectly modelled and it also adapts well in a cavity. It doesn't stick to dental instruments.



INDICATIONS FOR USE:

- As a replacing dentin basic layer of a composite material in I and II classes direct restorations.
- In "sandwich" technique.
- For crown buildup.

PRODUCT BENEFITS:

- The high filler content of material (82%) provided by a new formula of a bimodal filler with average size of particles: main X-ray contrast phase – up to 8 microns; nanophase – 10-30 nanometers;
- It can be perfectly combined with all types of opaque and enamel composite materials based on methacrylate intended for esthetic modeling of enamel surfaces;
- Low polymerization shrinkage (less than 1.63%) is especially important when a dentist seals big cavities in one placement;
- Excellent manual qualities – the material is very soft, plastic and doesn't stick to a tool;
- The Coefficient of Thermal Expansion (CTE) is very close to the one of tooth tissue – $24 \times 10^{-6} \text{ cm/cm}^\circ\text{C}$ that provides the absence of thermal stresses in the restored tooth which can appear during meal ("hot-cold");
- High physical characteristics of the material, in particular:
 - Flexural Strength – 120 MPa;
 - Compression Strength – 270 MPa
- It is manufactured in a universal transparent shade – U for ensuring the maximum depth of polymerization;
- Uncured material has the increased resistance to natural and artificial lighting that allows to carry out long modeling without risk of premature polymerization of the material;
- The material is radiopaque and contains fluorine.

METHOD OF USING:

1. Jen-Radiance Molar is applied and polymerized in one portion, with depth up to 5 mm.
 2. Filling the volume of lost dentin with portions up to 5 mm thick (and not in layers) significantly reduces the time spent on restoration.
- Attention!** Jen-Radiance Molar material requires overlap with a universal composite. We recommend Jen-Radiance.



Traditional technology

1. Flowable composite (super adaptive lining).
2. Layer of universal composite;
3. Layer of universal composite;
4. Layer of universal composite of enamel shades.



Technology with Jen-Radiance Molar

1. **Jen-Radiance Molar** (one layer up to 5 mm).
2. **Enamel layer** (universal composite at your choice. We recommend Jen-Radiance).

PACKING • Jen-Radiance Molar is packed in 4 g syringes.

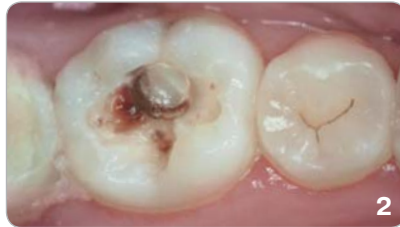
Restoration with JEN-RADIANCE MOLAR

CLINICAL CASE OF Dr. TATIANA LITVIN

Initial situation: patient N. came to the clinic with a complaint about multiple caries of the teeth of upper and lower jaws. During examination carious cavities on many teeth of the chewing group were found, but the patient complained of short-term acute pains from food irritants on teeth 36 and 46.



Carious cavity of II class according to Black - tooth 36.



Disclosure of a carious cavity at the bottom of which a cariously-modified pigmented dentin is visible.



Due to the deep location of the cavity, partially pigmented dense dentin is left on the bottom.



Treatment of enamel (30 sec) and dentin (15 sec) with Phospho-Jen AS and the subsequent application of the Jen-Unibond adhesive system.



To prevent the occurrence of caries complications a calcium-containing Jen-Line LCF laying is applied to the bottom of the cavity.



The modeling of the bumps of the tooth 36 is made by opaque layer of Jen-Radiance A3-O in several layers up to the place where dentin transfers into the tooth enamel.



Finishing of restoration with photopolymer material Jen-Radiance of enamel shade A1-E.



Carious cavity II class according to Black - tooth 46.



Disclosure of the carious cavity which is located on the level of mantle pigmented dense dentin.



Processing of enamel (30 sec) and dentin (15 sec) with Phospho-Jen AS orthophosphoric acid with subsequent washing with water for 1 minute.



Application of Jen-Unibond adhesive system and rubbing it into the surface of enamel and dentin according to manufacturer's instruction.



Application of liquid photopolymer material Jen LC-Flow of color A2 to the bottom of the cavity and at the transition point for improving the marginal fit of the future filling.



The bottom and the entire cavity of the tooth is filled with Jen-Radiance Molar (two layers of 3 mm) to give plasticity to the future restoration and to prevent shrinkage of the filling material.



Finishing of restoration with enamel shade of Jen-Radiance - A1-E with the help of a smoother and restoration brushes moistened with Jen-Radiance WA resin to improve fitting and easier modeling of the tooth bumps.



Final view of restoration of tooth 46 after grinding with Jiffy Polishing and Jiffy Goat Hair brush (Ultradent).



JEN-RAINBOW

Color light-cured flowable restorative composite with a pronounced effect of pearl shine or fluorescence



New color, light-cured composite material with a pronounced effect of pearl shine or fluorescence for filling (mainly) milk teeth. Suitable for restoring erosive, damaged, discolored, and structurally deficient dental dentin and enamel.

INDICATIONS FOR USE:

- Direct and indirect restorations for individualization of the restored teeth.
- Restoration of temporary teeth in pediatric dentistry.
- Sealing of fissures.
- Restoration of cavities of I, III, V classes with minimal invasion.
- Cavity after "tunnel" preparation.
- Restoration of small defects in indirect and direct aesthetic restorations.
- Reconstruction of temporary restorations.
- Temporary inlays.
- Marking of sealed canals facilitating their search during refilling process.

PRODUCT BENEFITS:

- High aesthetics due to a good balance of opacity and light reflection.
- Fluorine release due to the presence of fluorine-containing filler provides long anti-cariogenic activity.
- The material is perfect for pediatric dentistry. Facilitates visual control for parents.
- Superb bright colors turn the child's visit to a dentist into an interesting game.
- High motivation of children for treatment.
- Excellent color stability.
- Simple, quick and easy use, which is very important in pediatric dentistry.
- Excellent flowability of material facilitates application.
- It is cured by standard dental curing lamp.
- Provides convenience and ease of work.



COLORS:



PACKING • Jen-Rainbow in 1.5 g (1 ml) syringes and in 3 g (2 ml) syringes, a set of cannulas. Available colors: Green-Fluo, Purple-Fluo, Lime-Fluo, Orange-Fluo, Green-Pearl, Pink-Pearl, Blue-Pearl, Golden-Pearl, White-Pearl and Clear-Red.

JEN-RADIANCE FCP

Flowable composite paints



Jen-Radiance FCP – flowable composite paints which combine a high degree of aesthetics, ease in use and comfort in work.

INDICATIONS FOR USE:

Jen-Radiance FCP is used:

- As masking agents for tooth tissues with changed color.
- For direct and indirect restorations for individualization of restored teeth;

PRODUCT BENEFITS:

- Provides natural individualization of highly aesthetic restorations.
- High covering ability.
- Convenient application and practical use.
- Comfortable consistence.
- Available in four shades.

SHADES OF COMPOSITE PAINTS:

- Ochre – for color correction of different teeth areas (cracks in young and aged teeth, tobacco stains and etc.).
- White – for imitation of some specific teeth areas (hypercalcification, fluorosis and etc.).
- Grey (Grey-Blue) – for specification of cutting edge (blue glow of young enamel, underlining transparent shades).
- Brown – for creating of natural color of fissures.



Clinical Use of Jen-Radiance FCP - (Brown) ›

Dr. Andrey Sapelyuk

Specialization: therapeutic dentistry, endodontist-microscopist

Work experience: 18 years. Private dental practice ORIS, Ivano-Frankivsk, Ukraine.

CLINICAL CASE FROM THE PRACTICE OF Dr. ANDREY SAPELYUK



Sealed cavity of class II according to Black.



Using of Jen-Radiance FCP paint - (Brown) to simulate natural tooth fissures.



PACKING › Jen-Radiance FCP is packed in 3 g (2 ml) syringes.



JEN-RADIANCE WA

Modeling agent for wetting of composite materials



Jen-Radiance WA is a 30% filled universal radiopaque light cured composite modeling agent which improves the adaptation of composite materials to hard tooth tissues and prevents the composite from sticking to the instruments. Jen-Radiance WA can be used with any micro-hybrid composite restorative materials.

INDICATIONS FOR USE:

- Composite moisturizing material Jen-Radiance WA is used in the process of applying composite layers in case if the composite becomes too dry during layering and / or the oxygen-inhibited layer was removed (by contact with liquid) or destroyed (erased).
- Jen-Radiance WA helps to improve the glide of the instrument during sculpting and contouring.

PRODUCT BENEFITS:

- Provides natural individualization of highly aesthetic restorations.
- Convenient application and practical use.
- High covering ability.
- Comfortable consistence.
- Available in four shades.

METHOD OF USING:

To restore the oxygen-inhibited composite layer:

1. Remove a lock cap and attach the tip to syringe.
2. Apply a thin layer of Jen-Radiance WA over the cured composite layer. Blow air.
3. Then apply a new layer of the composite restorative material.

To facilitate the tool sliding:

- Apply a small amount of the material onto the instrument or onto the uncured composite.



PACKING • Jen-Radiance WA is packed in 3 gr. (2 ml) syringes/ cannulae set – 3 pcs.

JEN-LINE LCF

A light-cured one-component lining material with high biocompatibility and long-term fluoride release



Jen-Line LCF is a radiopaque light-cured one-component liner/base for restoration. Jen-Line LCF has a high biocompatibility and it is able to release fluoride for a long time due to the content of complex fluorides, hydroxyapatite and calcium hydroxide. The liner possesses its own adhesion to the dentin.

INDICATIONS FOR USE:

- It is used as a lining material for cavities and as the base for restorations

PRODUCT BENEFITS:

- Radiopaque light-cured one-component material (liner/base) for restorations.
- It contains calcium hydroxide, hydroxyapatite, complex fluorides, adhesion enhancers in a unique methacrylate matrix.
- Possesses good adhesion to dentin.
- It has high biocompatibility and is able to release fluoride for a long time.
- It has a high degree of opacity which makes it a good basis for subsequent restoration.

METHOD OF USING:

- Prepare the cavity, clean and dry it thoroughly. Be sure that no traces of eugenol are left in the cavity. Jen-Line LCF lining material should not be used in combination with the eugenol-containing materials. It is recommended to use eugenol-free temporary cements.
- Apply a layer of the liner onto the surface of dentin using a small round probe. Jen-Line LCF is applied only onto the surface of dentin, it should not be applied onto the surface of enamel.
- Direct exposure of day light onto the material should be avoided as this can make the material to be cured prematurely.
- The thickness of the first layer should be no more than 0.3 - 0.5 mm. Cure for 20-30 seconds. The light guide should be positioned as close as possible to the surface of the material.
- If it is necessary to apply a thicker layer apply a second layer (not more than 1.5 mm thick) and light-cure it.

Clinical Use of Jen-Line LCF



Deep cavity-class II according to Black.



To prevent the complications of caries a calcium-containing lining of Jen-Line LCF was added to the bottom of the cavity.



View of tooth reconstruction after restoration of the cavity with a composite material.

PACKING • Jen-Line LCF is packed in 3 g syringes.



JEN-DUACEM

Universal strengthened dual-cure adhesive cement



It is intended for cementing inlays and onlays, and is also used as a basis for the erection of a composite stump. Jen-DuaCem is also recommended for fixing fiber splinting systems, metal, fiberglass and carbon fiber pins and veneers.

INDICATIONS FOR USE:

- Cementation of inlays and onlays.
- Cementation of fiber splinting systems, metal, fiberglass and carbon fiber pins and veneers.
- Fixation of indirect restorations.
- As a basis for the construction of composite stump.
- Cementation of stump inlays.
- Fixation of adhesive bridges.

PRODUCT BENEFITS:

- Insoluble in oral fluids.
- Contains fluorides.
- Radio contrast material.
- Thixotropic with excellent flow characteristics.
- Possesses extremely small film thickness (less than 8 microns) and a high filler content.
- Possesses perfect physical characteristics.
- Possesses excellent adhesion to dental tissues, metal and ceramics.
- Universal shade CHM (Chameleon).
- System: paste/paste.

METHOD OF USING:

- During bonding procedures, careful control of oral fluids is needed to prevent contamination of the prepared area and of light-cured cement. Good results can be achieved by using a cofferdam, retraction of the gums by threads and cotton rollers in combination with the evacuation system (saliva ejector).
- Place equal amount of Paste A and Paste B on a mixing pad.
- Mix two Pastes for about 20 seconds until a homogeneous mixture is obtained.
- If a clinical case requires only chemical curing, then the material's working time at a temperature of 23 °C is 120 seconds. Full curing of the material occurs after 6 - 8 minutes. In the case of light curing, the cement reaches final strength after 20-30 seconds of irradiation.
- Apply a thin layer of the mixed paste on the restoration and on the surface of the cavity and place the restoration into the cavity. Avoid applying excess material onto the restoration as well as onto the walls of the cavity.
- Remove excess material with an appropriate tool. Avoid excessive removal of the material especially at the border of restoration and cavity. A slight excess of material may be left, if necessary.
- Cure the material with a curing lamp in places where it is possible. While fixing ceramic or composite restorations, cure Jen-DuaCem by directing the light through the restoration.
- During the fixation of restoration in this way a longer exposure time is required. The exposure time depends on the thickness of the restoration.
- To prevent the formation of oxygen-inhibited layer use a barrier gel.

PACKING • Jen-DuaCem Set of 4 syringes of 2 g (2 syr. of Paste A and 2 syr. of Paste B).

• Jen-DuaCem Set of 2 syringes of 2 g (1 syr. of Paste A and 1 Syr. of Paste B).

JEN LC-FLOW

Highly flowable multi-purpose light-cured composite which provides simplicity and ease in work as well as excellent aesthetics, color stability, durability and versatility



It is used to repair defects of enamel, erosion, discolored and structurally insufficient tooth enamel, acrylic veneers and minor defects in ceramic veneers. It is also perfect for fixing of laminated veneers.

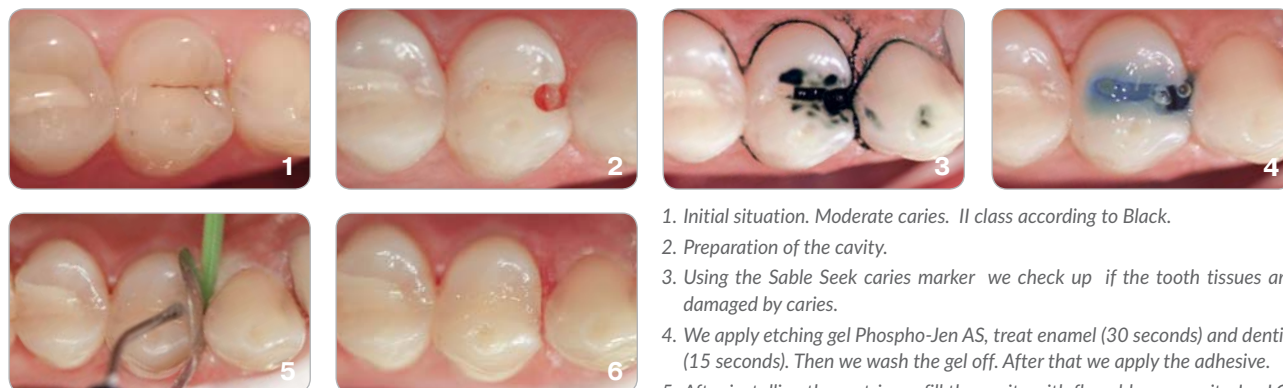
INDICATIONS FOR USE:

- Direct restoration of enamel defects (white and tetracycline stains, erosion, discoloration, etc.) with minimal tooth preparation or without preparation.
- Coating of discolored surfaces of anterior teeth and amalgam restorations (Jen LC-Flow UO (Universal Opaquer)).
- Filling cavities of V class.
- Aesthetic correction of restorations made with traditional composites. Masking and damping lining for ordinary composite. Finishing coating of composite fillings with a high degree of polishing.
- Renovation of defects in ceramic and acrylic veneers;
- Cementation of veneers;
- Fixing of splinting systems.

PRODUCT BENEFITS:

- Fluidity which allows to put material into the cavity directly from a syringe;
- High modulus of elasticity in combination with adhesive properties providing a perfect edge fitting.
- The ability to adapt to the cavity and fill all small grooves allows a dentist to use this material while fillings with ordinary hybrid composites.
- High degree of adhesion with etching enamel allows to work with small enamel defects without bonding systems.
- The composite can be polished up to a brilliant shine.
- High color stability and durability.
- A wide range of shades.

CLINICAL USE IN SMALL CAVITIES OF CLASS II



1. Initial situation. Moderate caries. II class according to Black.
2. Preparation of the cavity.
3. Using the Sable Seek caries marker we check up if the tooth tissues are damaged by caries.
4. We apply etching gel Phospho-Jen AS, treat enamel (30 seconds) and dentin (15 seconds). Then we wash the gel off. After that we apply the adhesive.
5. After installing the matrix we fill the cavity with flowable composite Jen LC-Flow A3 and light cure it for 20 seconds.
6. The final view of restoration after grinding and polishing.

PACKING • Syringes of 3 g (A1, A2, A3, A3.5, A4, B2, I, UO, GUM) with a set of delivery tips

Kits: 4 x 3 g (A2, A2, A3, A3) with delivery tips;

4 x 3 g (A2, A3, I, UO) with delivery tips;

4 x 3 g (A2, A3, B2, UO) with delivery tips.



JEN-UNIBOND

Improved one-component adhesive providing excellent bonding to dentin, enamel, composites, ceramics, metals and amalgam



Jen-Unibond is an advanced one-component adhesive system that provides one of the highest levels of adhesion among one-component adhesives. The adhesion strength of Jen-Unibond to the etched dentin is 17-40 MPa after 24 hours (depends on the individual laboratory test).

INDICATIONS FOR USE:

- Adhesive system for composite restorations (including flowable composites).
- Adhesive varnish for “cavities for amalgam restorations”.
- Protective varnish for ultra-sensitive areas of teeth.

PRODUCT BENEFITS:

- Compatible with most photopolymer restoration materials and cements.
- Includes components (Bis-GMA, HEMA, phosphates) that provide high adhesion strength: to enamel - 26.6 MPa, to dentin - 26.5 MPa (after 24 hours).
- Easy in use.
- Long shelf life without refrigeration.
- Economical in use.
- Excellent bio-compatibility, the material does not contain acetone or other compounds that irritate the pulp.

METHOD OF USING:

- After etching apply the adhesive with a brush in the same way as varnish for cavities is usually applied.
- Cover the etched area with one or two layers of Jen-Unibond in series. A single layer may not be enough. Do not rinse. Do not allow contamination of the working area.
- Light cure for 10 seconds.
- Then fill the cavity with a light-cured composite material or cement.

INDICATIONS AND PRECAUTIONS:

- In case of restoration of the V class cavities (cervical defects) the adjacent edges of the enamel should be beveled and etched in the usual way.
- Before etching dentin and adjacent enamel should be pre-cleaned with a polishing paste (free of fluorine), washed and lightly dried with compressed air that does not contain oil impurities.

TREATING OF HYPERSENSITIVE CERVICAL AREAS:

- Clean the cervical area of hypersensitive tooth with prophylaxis paste and rubber cup.
- Wash the paste out with water.
- Dry with air free of oil.
- Avoid overdrying of dentin.
- Apply Jen-Unibond in the same way as for direct restorations.

PACKING • Jen-Unibond in a bottle of 6 g.

PHOSPHO-JEN AS

Etching gel containing 37% of orthophosphoric acid with the addition of antiseptic



Phospho-Jen AS – etching gel containing 37% of orthophosphoric acid. Does not contain silicon dioxide, has a strong thixotropic effect.

INDICATIONS FOR USE:

- Acid etching of dentin and enamel.

PRODUCT BENEFITS:

- Contains 37% of orthophosphoric acid.
- Does not contain silicon dioxide.
- Gelling agent - biopolymer.
- The blue color of the gel simplifies the work (application control).
- Contains antiseptic (8-hydroxyquinoline - sulfate).
- Has a strong thixotropic effect.
- Supplied in 5 or 10 ml syringes with very thin tips which provide accurate and safe application of the gel only in areas where it is necessary to etch.
- Convenient and easy in use.
- The gel is washed out with water instantly.

METHOD OF USING:

- Apply the gel only on the enamel completely covering the area of the bevel.
- After 15 seconds apply the gel onto the dentin.
- After another 15 seconds thoroughly wash out the entire gel with water and air dry.
- After the process of etching the enamel should be of a white-chalk color (for milk teeth a second etching is recommended during 90-120 seconds).

INDICATIONS AND PRECAUTIONS:

- The working surface must be thoroughly cleaned before etching. If this has not been done, it is necessary to re-apply the gel, wash it off with water and dry the surface.
- Avoid getting the gel on soft tissues of the mouth, on the skin and in the eyes. If this happens immediately wash off the gel with plenty of water.

Clinical use of Phospho-Jen AS



Prepared cavity.



Etching the enamel with orthophosphoric acid Phospho-Jen AS for 30 seconds and etching the dentin – for 15 seconds.



Applying and rubbing a one-component Jen-Unibond adhesive onto the tooth surface.

PACKING • Phospho-Jen AS in a 5 ml syringe / 10 ml.



ADHESIVE

J-ESTHE POST

Transparent “invisible” fiberglass posts for highly aesthetic restorations



J-Esthe Post are transparent glass fiber posts with outstanding optical characteristics allowing to significantly strengthen the restoration without losing its optical and aesthetic qualities. J-Esthe Post allow to make more durable and resistant to stress restorations, increasing their reliability and durability.

INDICATIONS FOR USE:

- Restoring and reinforcement of the tooth crown including highly aesthetic restorations.

PRODUCT BENEFITS:

- J-Esthe Post are made of transparent quartz fibers bonded to each other with high-strength epoxy binder.
- Refraction indices of epoxy resin and quartz fibers are carefully selected and very close which allows the posts to be masked well in composite materials.
- Indicators of elasticity and thermal expansion are close to those of the dentin of the tooth.
- The end of the post has a special hemispherical shape which allows optimally distribute the load and work as a single whole with the structure of the tooth.
- The unique optical properties of J-Esthe Post make it possible to strengthen restorations up to transparent enamel areas without compromising the aesthetic component. This clinical decision makes the restoration more resistant to mechanical loads in the oral cavity, and thus increases its reliability and durability.
- J-Esthe Post do not require specific treatment.
- 3 sizes of posts.

Mechanical properties of the J-Esthe Post:

Fiber type	Quartz glass
Matrix	Epoxy resin
Fiber content (by weight)	80%
Resin content (by weight)	20%
Tensile strength	1,25 GPa
Elasticity modulus	50 GPa
Flexural modulus	25 GPa
Elongation at break	1,2%

Clinical use of J-Esthe Post



Initial situation.



Fixing the post on the adhesive cement of dual cure Jen-DuaCem.



A light guide effect of J-Esthe Post.



The final view of restoration.

PACKING · J-Esthe Post Kit:

J-Esthe Post №1 - 6 pcs / №2 - 6 pcs / №3 - 6 pcs;
J-EndoDrill №1 - 1 pcs / №2 - 1 pcs / №3 - 1 pcs.

Separate packaging of J-Esthe Post:

6 posts of a certain size (№1, №2, №3).

J-ENDODRILL

Drill for fiberglass, quartz and carbon fiber posts



J-EndoDrill is a very convenient and practical drill for the posts to restore and strengthen the crown part of the tooth, including highly aesthetic restorations.

INDICATIONS FOR USE:

- The cylindrical preparation of the canal for precise post placement.

PRODUCT BENEFITS:

- J-EndoDrill drill is a miniature drill that provides a perfect cylindrical preparation for the post.
- Perfect cylindrical preparation.
- The length of the working part of the tool - 16 mm.
- Three marks corresponding to a distance of 10, 12 and 14 mm from the tip of the tool.
- Control of the depth of penetration of the drill during rotational movement of the tool.
- Color codes corresponding to the sizes.
- Maximum rotation speed - 1000 revolutions per minute.

Posts	Post size (inches = mm)	Drill	Drill size (inches = mm)
Jen-Esthe Post # 1	0.039" = 0.9906	J-EndoDrill # 1 blue	0.042" = 1.0668
Jen-Esthe Post # 2	0.048" = 1.2192	J-EndoDrill # 2 green	0.050" = 1.2700
Jen-Esthe Post # 3	0.052" = 1.3208	J-EndoDrill # 3 yellow	0.055" = 1.3970
		J-EndoDrill # 4 black	0.061" = 1.5250

PACKING › J-Esthe Post Kit:

J-Esthe Post №1 - 6 pcs / №2 - 6 pcs / №3 - 6 pcs;
J-EndoDrill №1 - 1 pcs / №2 - 1 pcs / №3 - 1 pcs.

Single pack with J-EndoDrill:

1 drill of a certain size (№1, №2, №3, №4).

J-FIBER ROPE & J-FIBER TAPE

Fiberglass reinforced ceramic fibers for teeth splinting formed into cords - J-FiberRope or tapes - J-FiberTape



Dental splinting materials – special tapes and cords made of glass-ceramic fiber. These tapes and cords are fixed to the tooth tissues with the help of bonding adhesive systems used in a daily dental practice.

INDICATIONS FOR USE:

- Periodontal splinting of anterior and posterior teeth.
- Immediate replacement of extracted teeth.
- Production of temporary and long-term adhesive bridges.
- Stabilization of re-implanted or damaged teeth.
- Temporary reinforcement of implant-based bridges.
- Post-orthodontic retention.

PRODUCT BENEFITS:

- The fibers are reinforced with special glass ceramic.
- They are silanized, contain unfilled adhesive resins that increase adhesion with bonding systems and flowable composite cements.
- Provide high aesthetics.
- The elasticity module of tapes and cords of the J-Fiber system is comparable to that of most composite restoration materials.
- Flexible, durable and wear-resistant.
- Easy to use, do not require special scissors and do not need using of special gloves for manipulation.
- It is easy to use them in the mouth as well as during fixing of prostheses in the laboratory.

Clinical use of J-Fiber Rope ›



Initial situation.



Fix a cord impregnated with liquid composite Jen LC-Flow so that it is slightly slack.



Recreation the missing tooth with composite material.



The final view of restoration.

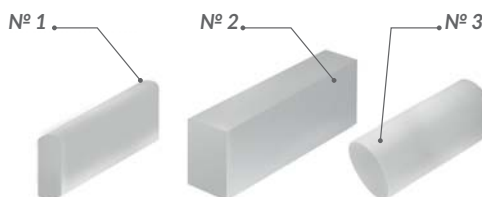
PACKING • J-FiberTape – 3 tapes of 9 cm each (total length 27 cm), width 2 mm.

J-FiberRope (1,5 mm) – 3 cords of 9 cm each (total length 27 cm), diameter 1.5 mm.

J-FiberRope (3 mm) – 3 cords of 9 cm each (total length 27 cm), diameter 3 mm.

JEN-FIBER BULK

Highly aesthetic fiber bulks for making adhesive bridge prostheses



Kit N° 1 – (0,7 x 1,4 x 30 mm) – 12 pieces

Kit N° 2 – (1,0 x 4,0 x 30 mm) – 4 pieces

Kit N° 3 – (1,8 x 30 mm) – 6 pieces

Adhesive bridge prostheses allow to completely eliminate or delay the use of traditional methods of indirect prostheses in which there is a great loss of tooth tissues.

PRODUCT BENEFITS:

- Jen-Fiber Bulks are made of transparent quartz fibers bonded to each other with high-strength epoxy binder.
- The refraction indices of epoxy resin and quartz fibers are carefully selected and very close, which makes it possible to mask the bulk well with a composite material.
- Indicators of elasticity, elasticity and thermal expansion are close to those of the dentin of the tooth.
- Surface roughness of the bulks of about 10 microns facilitates micromechanical adhesion to the composite.
- Excellent aesthetic result.
- Inertness and biocompatibility with living tissues of the tooth.
- Jen-Fiber Bulks do not require special treatment.

Jen-Fiber Bulk	Bulk size (inches)	Bulk size (mm)
Jen-Fiber Bulk # 1	0.02756 x 0.05512 x 1.1811	0.7 x 1.4 x 30
Jen-Fiber Bulk # 2	0.03937 x 0.15748 x 1.1811	1.0 x 4.0 x 30
Jen-Fiber Bulk # 3	0.0787 x 1.1811	1.8 x 30

Clinical use of Jen-Fiber Bulk



Initial situation. The absence of the second premolar on the upper jaw.



The formation of cavities for inlay by "steps": separately for the bulk and for the tape.



After etching and adhesive application fix the beam with Jen-DuaCem cement.



The tape soaked with bond is laid on the bulk and fixed with the flowable composite Jen LC-Flow.



Restoration of abutment teeth.



Formation of an intermediate part.



The final view of restoration.



PACKING ▶ Jen-Fiber Bulk N° 1 – (0.7x1.4x30 mm) - 12 pieces.
 Jen-Fiber Bulk N° 2 – (1.0x4.0x30 mm) - 4 pieces.
 Jen-Fiber Bulk N° 3 – (1.8x30 mm) - 6 pieces.

BIFLUJEN

Bifluoride varnish



Bifluoride varnish for fluoridation of teeth, treatment of tooth tissue hyperesthesia, prevention of caries and sealing of dentinal tubules.

INDICATIONS FOR USE:

- Fluoridation of teeth for dental caries prevention.
- Local fluoridation after therapy and polishing procedures.
- Decrease of sensitivity of hard tissues of the teeth
- Sealing of the dentinal tubules and creation of a protective barrier in the cavities.
- Erosion protection in the cervical areas.
- Insulation of the tooth surface of the teeth after mechanical processing.
- Post-operative treatment of enamel areas affected by acid.
- Local inhibition of bacterial activity.

PRODUCT BENEFITS:

- BifluJen is a quick-drying chemical varnish, comfortable for both the doctor and the patient.
- Contains calcium and sodium fluoride micro-suspensions.
- The high flowability of BifluJen allows you to form a fairly thin layer, which is very convenient especially when protecting areas close to the root canals.
- Contains thymol which provides a good antibacterial effect.
- Fluorides of calcium and sodium are sources of fluoride ions which fill tooth tissues and have a strong therapeutic effect in isolating the bottom of the cavities, as well as they are topically used as a prophylaxis against caries.
- The material is transparent and does not cause discoloration of the teeth.

METHOD OF USING:

- Surfaces to be treated with BifluJen must be thoroughly cleaned and air dried.
- Soak a foam applicator with one or two drops of the drug and then apply the drug with a thin layer on the surfaces which should be treated.
- To isolate cavities use an application brush with the help of which you should apply a layer of BifluJen on the walls and bottom of the prepared cavity.
- Avoid forming a layer that is too thick as a thick layer is easier to be removed from the surface of the teeth.
- Let the varnish soak into the tooth tissue for a few seconds and then dry the treated surface with air.
- After drying BifluJen forms a waterproof film that, if properly applied and properly cured, remains on the teeth for several days.

PACKING • BifluJen in a 10 ml bottle, a set of applicators.

BIFLU-JEN LC

One-component light-cured bifluoride and dentin sealant



Light-cured bifluoride varnish for the treatment of tooth tissue hyperesthesia, caries prevention and sealing of dentinal tubules.

INDICATIONS FOR USE:

- Prevention of caries.
- Tooth fluoridation.
- Decrease of sensitivity in areas adjacent to the root canals.
- Protection from carious in the cervical areas.
- Local fluoridation after routine therapeutic procedures and polishing.
- Local suppression of bacterial activity.
- Post-operative treatment of the etched enamel.
- Insulation of the tooth surface of the teeth after mechanical treatment.
- Insulation of cavities which creates a protective barrier.
- Sealing of dentinal tubules.

PRODUCT BENEFITS:

- Includes active micro-suspension of calcium fluoride and bioactive glass containing calcium fluoride phosphate.
- Optimum flowability allows to form a fairly thin layer which is very convenient especially for protecting areas close to the root canals.
- Biflu-Jen LC also contains timol which has a strong antibacterial activity.
- Components of the varnish are suppliers of ions of fluoride, calcium and phosphorus saturating tooth tissues and having a strong therapeutic prophylactic effect.
- Light-cured varnish.
- Biflu-Jen LC is transparent and does not cause discoloration of the teeth.

METHOD OF USING:

- Surfaces to be treated with Biflu-Jen LC must be thoroughly cleaned and air-dried.
- Put a drop or two of the varnish on the mixing pad.
- Apply a thin layer of the varnish on the surfaces to be treated with the help of applicator. Avoid making a too thick layer.
- Let the varnish soak into the tooth tissue for a few seconds and then dry the treated surface with air.
- Light-Cure the applied layer with a Light Unit (usually 10 seconds is enough).
- Remove the layer inhibited by oxygen with a cotton roller.
- In case of proper application and proper oral care the material stays on the surface of the teeth for several weeks.
- To put the varnish onto the bottom of the cavity place a drop of Biflu-Jen LC on the application brush and apply a layer of it on the walls of the cavity to be prepared.
- Let the varnish soak into the tooth tissue for a few seconds and then dry the treated surface with air.
- Finally Biflu-Jen LC forms a film insoluble in water environment.
- The application of Biflu-Jen LC is followed by a standard therapeutic procedure.

PACKING • Biflu-Jen LC in 3 g syringe, set of delivery tips.



ZUREMIN-CaPF

Chemically Activated Gel for Tooth Remineralization based on amorphous phosphates and calcium fluoride



Zuremin-CaPF is a two-component oral gel product providing the remineralization and desensitizing teeth. The product contains a water soluble calcium phosphate salts, potassium nitrate, compounds containing fluoride ions and some other compounds. When mixed and applied on teeth, the Components A and B generate the formation of hydroxyapatite and fluorine apatite formation on teeth tissue and provides desensitizing effect on the tissues of the teeth.

INDICATIONS FOR USE:

- Caries prevention of tooth decay and milk molars.
- Caries in the stage of spot.
- Pathological abrasion of teeth (bruxism).
- High sensitivity of the teeth.
- During orthodontic treatment and after it.
- After the professional care.
- Before and after teeth whitening.
- Fluorosis.
- Erosion of the enamel.
- In case of insufficient or unbalanced nutrition.

PRODUCT BENEFITS:

- Provides remineralizing and desensitizing effect.
- Contains fluorine compounds in concentration that ensures the presence of about 1,100 ppm of fluoride ions which provides a strong carious protective effect.
- It has a neutral acid-base balance which helps to avoid irritation of the gum tissues.
- The presence of a small amount of hydrogen peroxide in the gel composition contributes to a slight whitening of the teeth.
- It has a pleasant taste and smell.
- The gel as anti gingivitis action.
- It is perfect for the procedure following the teeth whitening.

METHOD OF USING:

- Before the beginning of treatment, a professional hygiene complex is carried out: the hygienist must remove hard supra- and sub - gingival dental deposits, pigmented plaque. If there are diseases of periodontal tissues or there is damage of the mucous membrane of the oral cavity a restorative treatment should be carried out within 3 - 10 days so that the kappa does not irritate the gingival margin. The oral cavity must be sanitized: all teeth destroyed by the carious process should be treated and all traumatic factors should be eliminated.

Preparation of Zuremin-CaPF gel for use



1. Take two syringes A and B and a plastic mixing container from the package (pic. 1).
2. Add an equal amount of components from syringes A and B to the mixing container (pic.2.3).
3. Mix for 20 seconds until a homogeneous mass is obtained (pic. 4). The opalescent nature of the mixed gel will indicate the presence of active amorphous fluorophosphate calcium salts – the sign that the gel is ready for use.
4. Apply the mixed gel by rubbing or with use of individual kappa, according to the procedures described in this guide (pic. 5).
5. Avoid overfilling the tray (kappa). Place the kappa on the teeth (pic.6). Remove excess gel (if it extends beyond the kappa) with a toothbrush or tissue.
6. The duration of the procedure depends on your clinical situation and is determined by the doctor. The most preferable is 2-3 hour session with kappa before bedtime.

After the procedure is complete, remove the kappa, rinse it well with cold water and put in a special box.

Rinse the mouth gently with warm water (or better –with the saliva that had gathered).



JEN-FISSUFILL

Light-cured fluorine-releasing composite material for pit and fissure sealing



Jen-Fissufill is a photopolymer fluorine-releasing composite material for pit and fissure sealing with improved thixotropy and a high degree of adhesion to etched enamel.

INDICATIONS FOR USE:

- Sealing of fissures and pits.
- Performing micro-restorations.
- Using as the first layer for large composite restorations in cavities with a C-factor equal to 5.

PRODUCT BENEFITS:

- Filler: special bioactive glass containing calcium- fluor-phosphate.
- Prolonged output of ions of fluoride, calcium and phosphate which can re-mineralize tooth tissues and prevent caries.
- The average size of the bioactive filler particles is 0.4 microns.
- High fullness of material (about 50%).
- Excellent abrasion resistance and durability.
- Thixotropic.
- Radiopacity.
- Rheological additives facilitate the penetration of the material into the narrow fissures and pits.
- High adhesion to etched enamel.
- Available in two colors: transparent opal (Clear) and opaque white (White).
- Perfect disguise (White).
- Control over fissure sealing for a long time (Clear).

METHOD OF USING:

- Thoroughly clean the surface for filling and treat it with etching gel containing orthophosphoric acid and antiseptic additives (Phospho-Jen AS). Etching time - about 15 seconds (for milk teeth - 90-120 seconds). Then wash with plenty of water.
- The etched surface of the tooth should be white-blue and after drying NO saliva, moisture or any contaminants should be allowed onto this surface.
- Dry the etched surface thoroughly.
- Put one drop of Jen-Fissufill on the mixing plate and using a brush apply a thin layer of it onto the etched surface.
- Light-cure it for 20-30 seconds using a Light Unit.
- Carefully close the syringe immediately after use.

PACKING • Jen-Fissufill in 2.5 g syringes, delivery tips.

CALCI-JEN

Calcium hydroxide paste for pulp protection and temporary root canal filling



Calci-Jen is a water-based calcium hydroxide paste for pulp coating and temporary root canal filling. The high biological activity of Calci-Jen is caused by a special manufacturing technology, including submicron grinding of calcium hydroxide particles and special treatment which prevents their passivation. Due to the fine particle structure the material easily penetrates even into the thinnest lateral canals. The Calci-Jen kits include interchangeable delivery tips which ensure accurate application of the drug and help to avoid cross-contamination.

INDICATIONS FOR USE:

- Indirect pulp coating.
- As a lining material to prevent the pulp from contacting the acidic environment of filling cements.
- Direct pulp coating in case of open pulp or pulpotomy.
- As a material for temporary (therapeutic) root canal filling.

PRODUCT BENEFITS:

- Contains active water-based calcium hydroxide.
- Designed to protect the pulp and for temporary root canal filling.
- Accurate and comfortable application of the material.
- PH> 12%.

METHOD OF USING:

- Thoroughly clean and dry the cavity.
- Remove the tip cap, place the delivery tip on the Calci-Jen syringe and apply the paste in several layers one after the other until the desired layer thickness is reached. Allow each layer to dry or dry it with compressed air.
- The paste should not be applied onto the edges of the cavity. In case if it has got there it should be carefully removed. Then proceed with putting the lining and the subsequent restoration.
- During endodontic treatment first of all the dentist should prepare and clean the canal (using 3% hydrogen peroxide solution or sodium hypochlorite). Then put Calci-Jen paste into the canal using Lentulo or NaviTips (Ultradent). After that fill the tooth.
- It is recommended to check the canal filling with x-ray.
- Close the syringe with the cap immediately after use.

RECOMMENDATIONS AND PRECAUTIONS:

- Post-surgery sensitivity: if the paste was applied beyond the root apex this can cause discomfort (sensitivity on occlusion or swelling). However, as a rule, these symptoms disappear within 24 hours.
- Do not use hardened pasta.
- Do not use expired material.

PACKING • Calci-Jen in 2,5 g (2 ml) syringe, delivery tips.

CHELA-JEN GEL / LIQUID

Chelate material for chemical extension of root canals



Chela-Jen Gel is designed for extension of root canals due to the dissolution of the calcium components of the canal walls and dentinal sawdust appeared during mechanical processing.

EDTA-sodium salt removes calcium salts from the walls of the canal allowing the reamers and files to clean quickly the canal and give to it the desired shape.

The ability of EDTA to dissolve calcium of dentinal plugs quickly allows mechanical tools to penetrate even into the thinnest canals. The Gel minimizes the risk of tool breakage in the canal.

Chela-Jen Gel also facilitates removal of the broken instruments, silver and gutta-percha pins, etc. from the canal. Contains benzalkonium chloride, which provides the antibacterial effect of the drug.

INDICATIONS FOR USE:

- Chemical extension of narrow and poorly accessible root canals with simultaneous disinfection.
- Identification of canal orifice.
- Unsealing of previously sealed canals.

PRODUCT BENEFITS:

- Chemical extension of root canals due to dissolution of calcium components of the canal walls and dentinal sawdust during mechanical processing.
- The drug contains 19% EDTA.
- Rapid calcium dissolution of dentin plugs.
- Contains benzalkonium bromide which provides antibacterial action of the drug.
- Penetration even into the thinnest channels.
- The drug minimizes the risk of tool breakage in the canal.
- Facilitates the removal from the canal of broken tools, silver and gutta-percha pins, etc.
- Available in two forms:
 - Chela-Jen Liquid – liquid,
 - Chela-Jen Gel – gel.

METHOD OF USING:

- After washing the canal with a stabilized solution of sodium hypochlorite enter a file (K or H) coated with Chela-Jen Gel into the canal until it reaches the apex.
- You can also put Chela-Jen Gel into the canal using delivery cannulas.
- Finally, process the canal with sodium hypochlorite and an H-file.
- Wash and dry the canal.
- You can use special cleaning solutions.
- Canal filling can be carried out with an appropriate sealer and gutta-percha pins by using routine protocol.

PACKING • Chela-Jen Gel – in a 5 ml syringe, delivery tips;
Chela-Jen Liquid – in a 9 ml bottle.



JEN-DESOBTURAT

Solvent for the root canal desobturation



Jen-Desobturat – solvent for the root canal desobturation.

INDICATIONS FOR USE:

- For softening and desobturation of the root canals sealed with the phenol, formalin, and formaldehyde resins.
- Disobturation (unsealing) of root canals after sealing with phenol-formaldehyde-based resins.

PRODUCT BENEFITS:

- High efficiency of unsealing.
- Contains flavoring additives.
- Presence of surfactant facilitates the penetration of the solvent into the recesses and cavities.

METHOD OF USING:

- Desobturation of the canal is performed by combined chemical action of Jen-Desobturat and mechanical action of endodontic instruments
- Process the tooth chamber and entrance of the canal.
- Place a drop of Jen-Desobturat at the mouth of the canal.
- Delete the contents of the canal using the appropriate file, wetting the instrument with Jen-Desobturat.
- Repeat the procedure step by step until the apex is reached.

RECOMMENDATIONS AND PRECAUTIONS:

- The canal which is unsealed with Jen-Desobturat must be thoroughly dried before subsequent filling.
- Avoid contact with eyes and oral soft tissue. If accidental contact with eye occurs rinse immediately with large amount of water.



PACKING • Jen-Desobturat in 9 ml bottle.

ALU-JEN GEL

Highly effective hemostatic – gel based on 25% aluminum sulfate



Alu-Jen Gel is used for retraction of gums, for stopping bleeding and reducing inflammation associated with the process of taking impressions in class V restorations, etc. It can also be used to reduce gingival fluid secretion when fixing indirect adhesive restorations. Alu-Jen Gel is intended for topical use and can be used with any retraction threads. It does not stain the areas of preparation and tooth tissue.

INDICATIONS FOR USE:

- Gum retraction.
- Stopping the release of gum fluids and blood.
- Reducing of inflammation.

PRODUCT BENEFITS:

- Very effective gum retraction.
- Complete hemostasis.
- Decreasing of gingival fluid secretion during the fixation of indirect adhesive restorations.
- Reduction of inflammation associated with the procedure of taking impressions, during class V restorations, as well as with other problems associated with the control of gingival fluids.
- Local application.
- It is used with both impregnated and non-impregnated threads.
- It does not stain the areas to be prepared and tooth tissue.

METHOD OF USING:

- Attach the delivery tip to the syringe.
- Squeeze a thin strip of the gel onto the bleeding areas of the mucosa.
- Select the thread of the necessary size and pack it into a gel.
- Wait 2 - 6 minutes.
- In case if the bleeding continues wash the area with water with a water-air gun and then apply the gel again.
- Remove the thread.
- Rinse and dry the treated area.
- Take the impressions following the generally accepted methods.

RECOMMENDATIONS AND PRECAUTIONS:

- Avoid contact of the gel with skin and eyes as this may cause a burning sensation or irritation. If contact occurs wash the area with plenty of water. In case of ingestion of the gel induce vomiting or seek for medical help.
- It is recommended to use a double-thread packaging technique. First pack a small thread and then a larger one. A small thread can be left while the impression is taken and then should be removed.

PACKING • Alu-Jen Gel in 5 ml syringe, delivery tips.



JEN-METROHECOR

Antimicrobial gel for treatment of highly infected root canals



Jen-MetroHeCor is a unique combination of 3 active ingredients dissolved (in the most active state) in inert biopolymer matrix. At the temperature of the human body the fluidity of the gel increases dramatically allowing the active ingredients to penetrate even into the most distant parts of the root canals.

INDICATIONS FOR USE:

- For prophylaxis and treatment of infected root canals in acute and chronic forms of pulpitis.
- For treatment of various types of acute and chronic periapical pathology.

Pulpitis:

- Acute purulent pulpitis.
- Chronic gangrenous pulpitis.
- Exacerbation of chronic pulpitis.

Periodontitis:

- Acute serous periodontitis.
- Acute purulent periodontitis.
- Chronic forms of periodontitis:
 - *fibrous;*
 - *granulating;*
 - *granulomatous.*

PRODUCT BENEFITS:

- Suppresses almost all aerobic pathogenic microorganisms and a significant amount of anaerobic microflora of infected root canals.
- High concentration of antibacterial components in the most active, dissolved form.
- The gel is thermoplastic, its fluidity increases at body temperature.
- Easily penetrates into the most hard-to-reach areas of the root canal.
- Easily inserted into the canal with the help of a convenient plastic endodontic tip (included).
- Can be used for endodontic treatment of children with fully formed apexes.

METHOD OF USING:

First visit:

- Isolate a tooth from saliva (cofferdam).
- Prepare carious cavity.
- Develop a pulp chamber and remove residual pulp. Rinse the cavity.
- Make primary instrumental treatment of the root canal. It is

desirable to use an EDTA-based endodontic lubricant (for example, Chela-Jen Gel). If there are evident destructive processes in the periapical tissues it is recommended to use preparations containing tetracycline chelate antibiotics (Endogil-TC or Endogil-DC).

Clinical use of JEN-METROHECOR

Practical advice and a clinical example of use of Jen-MetroHeCor:

- During instrumental treatment of the root canal irrigate with sodium hypochlorite solution.
- Complete root canal treatment by washing with distilled (preferably sterile) water or a large amount of saline.
- Dry the root canal with paper pins. Do not use air!
- The root canal prepared in this way is filled with Jen-MetroHeCor by means of the tip (goes with the material) or the canal-filler until the gel begins to go beyond the root canal.
- Place a small ball of sterile cottonwool into the cavity of the tooth and hermetically isolate it with a temporary cement filling for 1 - 3 days depending on the clinical situation.

Second visit:

- Isolate a tooth from saliva.
- Remove the temporary filling and remove the remaining gel from the root canal by washing with warm distilled (preferably sterile) water
- Carry out the final mechanical and antiseptic preparation of the root canal for filling and dry the canal.
- Carry out a permanent obturation of the root canal.



Dr. Svetlana Khlebas

Dentist of the highest category, lecturer of IP NMAPO named after P. L. Shupyk, Kiev.

CLINICAL CASE OF Dr. SVETLANA KHLEBAS

Twenty patients with the diagnosis of chronic granulomatous periodontitis were treated with Jen-MetroHeCor. The gel was applied for 1 - 3 days (depending on the clinical situation) in the form of a medical intra-root dressing after mechanical and medical treatment of the infected root canal and hermetically sealed with a temporary filling. In all cases the gel showed high clinical efficacy and contributed to the rapid reduction of inflammation in the periapical tissues.

This method of using of Jen-MetroHeCor allows to avoid reinfection of root canals (which often happens when the tooth is left open) and to achieve positive results in a shorter time.

Patient K, 36 years old. Chronic granulomatous periodontitis of the tooth 2.2 in the acute stage.

Previous treatment with calcium hydroxide for temporary obturation of the root canal was not successful. The patient came to the clinic with complaints about pain in the area of the problem tooth and soft tissue swelling. It was decided to include the Jen-MetroHeCor material in the endodontic treatment.

The material was placed in the root canal for 3 days. The next day the patient noted that the pain disappeared and epy swelling decreased significantly which was evidence of the relief of the inflammatory process. After 3 days, the treatment was continued according to the classical scheme. Permanent obturation was carried out according to the method of vertical condensation of heated gutta-percha with use of Sealer AH Plus (Dentsply).



Initial situation.



Control X-Ray 6 months after the endodontic treatment.



Control X-Ray 4 years after the endodontic treatment.



JEN-METROHELUR

Antibacterial gel for treatment of periodontium diseases



A unique combination of 4 active ingredients which are present in the dissolved (most active) form in the biopolymer matrix. A special biopolymer matrix provides the prolonged release of active ingredients into the surrounding soft tissues.

INDICATIONS FOR USE:

Infectious and inflammatory diseases of periodontium and mucous membrane of the oral cavity:

- Acute and chronic gingivitis.
- Acute ulcerous necrotic Vensana gingivitis.
- Acute and chronic periodontitis disease.
- Peri-implantitis.
- Youthful periodontitis disease.
- Periodontosis complicated by gingivitis.
- Aphthous stomatitis.
- Cheilitis.
- Inflammation of the mucous membrane of oral cavity after the trauma (including carrying prosthetic device).
- The post-extraction alveolitis (socket inflammation after the tooth extraction).
- Periodontitis, periodontal abscess (as a part of the combined therapy).

METHOD OF USING:

Infectious and inflammatory diseases of the periodontal and oral mucosa:

- Topical use. For dental use only.
- Eliminate dental deposits mechanically and align the surface of the root.
- Wash, then dry the area with a paper pin.
- Insert the gel into each periodontal pocket directly from the syringe using a plastic tip (supplied) or a metal cannula. The gel is firstly introduced into the deepest part of the periodontal pocket, after that the pocket is filled up to the edge of the gum.
- When the the gel is insert the patient should refrain from drinking and eating for 30 minutes. It is not recommended to wash the gel out
- To prevent exacerbation of chronic gingivitis and periodontitis the gel is applied twice during 7 to 10 days. Such preventive courses are carried out 2-3 times a year.
- To prevent post-fracture alveolitis after tooth extraction the socket is treated with gel, after which the gel is used once every two days for 7 – 10 days.

ENDOgil-TC

Gel for mechanical treatment of root canals with antimicrobial effect



Endogil-TC is an excellent lubricant that facilitates the reaming of root canals which provides high-quality expansion, cleaning, shaping and antiseptic processing of even hard-to reach and crooked root canals.

INDICATIONS FOR USE:

It is used for instrumental treatment of root canals together with irrigation solutions (sodium hypochloride, hydrogen peroxide).

PRODUCT BENEFITS:

- The material does not require manual preparation (ready-to-use form).
- It is well delivered to the root canal both through the tip and in the usual way.
- Has chelating properties.

METHOD OF USING:

First visit. The gel is inserted into the canal with the help of endodontic plastic tip. Mechanical processing of the root canal is performed according to the following protocol:

- Root canal irrigation with 2.5 - 3% sodium of hypochlorite solution alternates with inserting the gel into the root canal.
- Instrumental formation of the root canal is carried out when the gel is injected. Due to its chelate properties the gel removes the smeared layer and facilitates the passage through the root canal.
- The above-described procedures should be repeated until the required degree of root canal treatment is reached.
- Final irrigation with sodium hypochlorite solution.
- Very thorough irrigation of the root canal with distilled water.
- Temporary obturation of the root canal with calcium hydroxide for 1 - 2 weeks.

Especially recommended:

- for infected root canals;
- if there are destructive processes in periapical tissues.

- Provides thorough mechanical treatment of the root canal with manual and rotary tools.
- Removes smeared layer.
- It has an antimicrobial effect on the microflora of root canals.

Second visit:

- After mechanical removal of calcium hydroxide from the root canal the following procedures are carried out:
- Root canal irrigation with 2.5 - 3% sodium hypochlorite solution which alternates with the insertion of the gel into the root canal.
- Root canal irrigation with distilled water;
- Repeated temporal obturation of the root canal with calcium hydroxide (during destructive processes) or permanent obturation of the root canal.

Attention:

In cases if there are hard-to-reach infected root canals, it may be necessary to use Jen-MetroHeCor gel in the root canal under a tight dressing for 1 to 3 days.

PACKING • Endogil-TC – in 2 ml syringes, a set of delivery tips.



JEN-RELIEF AB

Application antibacterial desensitizing gel for local sensitivity reduction



Jen-Relief AB is used for any dental procedures that require local anesthesia. The gel is applied to the mucous membrane of soft tissues, directly to the place where the injection will be made. The material has low toxicity, does not cause allergic reactions and chemical burns of the mucous membrane. It easily get into hard-to-reach places. Jen-Relief AB is economical, light and easy to use, has a pleasant taste. It also has an antibacterial effect.

INDICATIONS FOR USE:

- Anesthesia of mucosa of the soft tissues before injection.
- Suppression of reflex mouth closing.
- Lubrication and anesthesia before cofferdam application.
- Local anesthesia when removing excess cement, when installing a crown or bridge, curettage or removing dental plaque.

PRODUCT BENEFITS:

- Application gel based on 20% benzocaine.
- Has an antibacterial effect.
- Faster and deeper anesthesia.
- Does not cause chemical burns of the mucous membrane.
- More economical use of the drug.
- The gel is applied locally and as a result - there is no discomfort that occurs after irrigation of the entire oral cavity.
- Convenience of application in hard-to-reach places.
- Flavoring additives: cherry, strawberry, peach.

SPECIAL RECOMMENDATIONS FOR CHILDREN'S DENTISTRY:

- You can anesthetize the place of injection. When the gel is applied, the child is not afraid of the future injection.
- Then (after 2 - 3 minutes) infiltration anesthesia is performed.

Clinical use of Jen-Relief AB



Local anesthesia of the injection site with Jen-Relief AB gel before anesthesia.



Due to the use of gel for local anesthesia patients get calm and are not afraid of the following procedures.



PACKING • Jen-Relief AB is available in 5 ml syringes or in 30 g bottles.

JenDental
UKRAINE



ULTROPALINE

ULTROPALINE DENTAL PORCELAIN

Ultropaline ceramics is a 100% synthetic dental porcelain



Ultropaline ceramics is a completely synthetic porcelain. Fine leucite crystals are distributed into the glass matrix more densely and uniformly. This structure makes dental porcelain more durable and stable because the leucite crystals act like stoppers for microcracks that spread into the less durable amorphous glass phase.

👍 PROPERTIES AND BENEFITS:

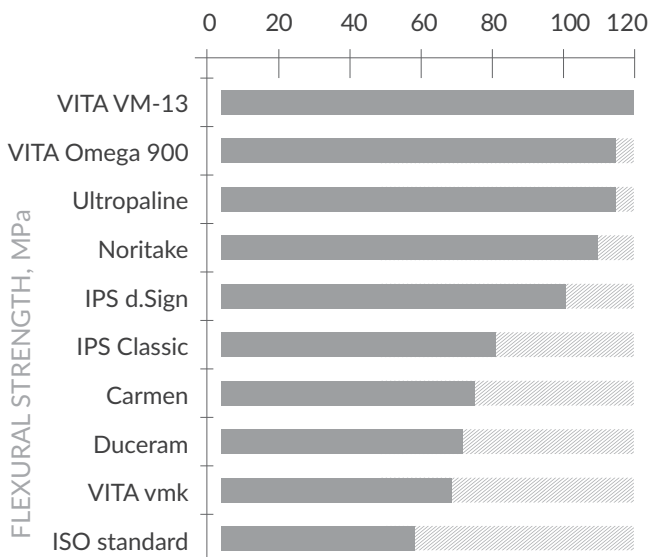
- The widest range of stains and modifiers.
- Fluorescence and opalescence is similar to a natural teeth.
- The most sophisticated surface-active agents are used in production of **Ultropaline** modeling liquids securing high stability of the ceramic particles in a mixture and providing good condensation of the mass at application. Ceramic powers mixed using **Ultropaline** liquids do not flow down even in a high humidity condition simplifying the modeling process considerably.
- Outstanding flexural and bending strength allows its usage in fabrication of durable prosthetic appliances with sufficiently thinner layer of ceramics.
- **Ultropaline** porcelain has long positive clinical history. Clinical cases of successful denture operation in a patient's mouth for more than 20 years are reported.
- Excellent color stability and esthetics.
- Unbeatable quality/price ratio.

Clinical use of Ultropaline ›



FLEXURAL STRENGTH

Ultropaline porcelain mass is distinguished by very high strength and, most importantly, high bending strength. This is achieved due to the very small size of the leucite crystals and their high density in the mass.



The data flexural strength of different masses that used in this diagram are listed in the following publications:

1. H.F.Kappert. "Moderne MetallKeramik-Systeme mit Omega 900". Sonderdruck. Zahnärztliche Mitteilungen. Heft 18/1996.
2. Hydrothermale DentalKeramik-Systeme. Ottmar Komma. Herausgegeben von DUCERA Dental GmbH. 1993.
3. F.Levr. "The physic-chemical characteristics of dental ceramics CARMEN®". Modern dentistry. 1999, 2 (6), p.58.
4. "Noritake". Super Porcelain EX-3. Expo Dent.
5. VITA OMEGA 900 MetalCeramics. Directions for use. VITA 1998.
6. Veneering material VITA VM®13 .Working instructions 01.06. VITA.

"Ultropaline" dentin has shown its breaking point at 105 – 110 MPa and "Ultropaline" transparent at 115 – 125 MPa.

ADHESION TO NiCr AND CoCr ALLOYS - 37 MPa!

According to ISO 6872, the adhesion strength must be at least - 25 MPa.

STABILITY

Ultropaline dental porcelain is characterized by high stability of properties. The basic properties of the material vary only slightly from firing to firing.

PARTICLE SIZE DISTRIBUTION

50% of its particles are smaller 33 µm in size, and 12 – 15% are less than 5 µm. This feature determines low shrinkage of the material during firing, as well as its low porosity, high translucency and good manual properties.

Specific particle distribution decreases shrinkage of porcelain during firing. *Ultropaline* ceramics does not require substantial condensation during modeling allowing to get high transparency and preventing shrinkage cracks even with a slight compaction.

THERMAL EXPANSION

The coefficient of thermal expansion for dentine of *Ultropaline* ceramics changes from $13.4 \cdot 10^{-6} \text{ K}^{-1}$ to $13.7 \cdot 10^{-6} \text{ K}^{-1}$ after 5 successive firings with no danger for the material to crack during 5 firing cycles.

Ultropaline porcelain is successful used in combination with dental alloys of various brands, such as Denta, Remanium 2000, Remanium 2001, Remanium Star, Remanium CE, Heranium AN, Heranium S, Rexillium CD, Wiron 88, Wiron 99, Wirobond, Microlit N, Nicor and others with coefficient of thermal expansion values within $(13,7 - 14,3) \cdot 10^{-6} \text{ K}^{-1}$.

The list of metals, on which ceramic Ultropaline has been used successfully in our dental practice:

Zellit-N	DENERTIA – 7, 8, 9, 19, 28
Heraclium AN, S	Remanium 2000, 2001, Star, CSE
Ducera-Alloy C	Ceralloy



TABLE OF COLOR AND SHADE COMBINATION FOR ULTROPALINE OPAQUER, DENTINE, OPAQUE DENTINE AND ENAMEL MASSES

Shade	A1	A2	A3	A3.5	A4
Opaquer	OA1	OA2	OA3	OA3.5	OA4
Dentine	DA1	DA2	DA3	DA3.5	DA4
Cervical (20% – 30%)	CA	CA	CA	CA	CA
Opaquer-Dentine	ODA1	ODA2	ODA3	ODA3.5	ODA4
Enamel (Incisal)	S 58	S 58	S 59	S 59	S 60

Shade	B1	B2	B3	B4	C1	C2
Opaquer	OB1	OB2	OB3	OB4	OC1	OC2
Dentine	DB1	DB2	DB3	DB4	DC1	DC2
Cervical (20% – 30%)	CB	CB	CB	CB	CC	CC
Opaquer-Dentine	ODB1	ODB2	ODB3	ODB4	ODC1	ODC2
Enamel (Incisal)	S 57	S 59	S 59	S 60	S 58	S 59

Shade	C3	C4	D2	D3	D4
Opaquer	OC3	OC4	OD2	OD3	OD4
Dentine	DC3	DC4	DD2	DD3	DD4
Cervical (20% – 30%)	CC	CC	CD	CD	CD
Opaquer-Dentine	ODC3	ODC4	ODD2	ODD3	ODD4
Enamel (Incisal)	S 59	S 60	S 60	S 59	S 59

Transparent masses are selected individually in each case. It is acceptable to mix transparent and enamel layers, and also transparent with dentine layers to obtain the optical effect of “color from the tissue depth”.

FIRING CHART FOR ULTROPALINE PORCELAIN

Process	Unit of measurement	Opaquer	Dentine, cervical, transparent, enamel, modifier, opaquer dentine, opalescent	Glaze, glaze paints
Drying temperature	°C	300	300	300
Drying duration	min	4 – 7	4 – 7	4 – 7
Heat rate	°C / min	80	60	56 – 60
Firing temperature	°C	980, 950	910, 900	890
Firing duration	min	1	1	1
Vacuum on temperature	°C	550	580	air
Vacuum off temperature	°C	980, 950	910, 900	air
Vacuum set point, mm Hg	29	29	29	air
Cooling rate	°C / min	60	60	60
Temperature of chamber opening	°C	700	700	700

ASSORTMENT OF ULTROPALINE PORCELAIN SYSTEM:

ULTROPALINE BIG SET, 16 SHADES

Content:

- Dentine Powders, 16 shades in 30g jars (A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4);
- Incisal Powders – 4 types of variable transparency in 30g jars (S57, S58, S59, S60);
- Cervical Powders – 4 types of variable colors in 30g jars (CA, CB, CC, CD);
- Transparent Powder, 30g (T);
- Super Transparent Powder, 30g (ST);
- Modelling Liquid for Dentine and Enamel, bottle 50 ml;
- Modelling Liquid Preform for Dentine and Enamel, bottle 50 ml;
- Paste Opaquers, 16 shades, in 4 g syringes (OA1, OA2, OA3, OA3.5, OA4, OB1, OB2, OB3, OB4, OC1, OC2, OC3, OC4, OD2, OD3, OD4);
- Paste Glaze in Syringes 4 g – 2 pcs;
- Paste Paint Glaze in Syringes 4 g – 2 Syringes (Colors: Light Brown, Ochre).

ASSORTMENT OF ULTROPALINE PORCELAIN SYSTEM:

ULTROPALINE POWDER OPAQUERS SET

Content:

- 6 jars of powder, 20 g each: (OA2, OA3, OA3,5, OB2, OC2, OD2).

ULTROPALINE DENTIN SET

Content:

- 6 jars of powder, 30 g each: (DA2, DA3, DA3,5, DB2, DC2, DD2).

ULTROPALINE INTENSIVE-DENTINS SET

Content:

- 6 jars of powder, 30 g each: (White, Blue, Brown, Grey, Ochre, Red Gum).

ULTROPALINE TEST SET

A2 and A3 shades only (21,5 g + 30 ml).

Content:

- Opaquer paste, jar 2 g;
- Opaquer-dentine powder, 2.5 g;
- Dentine powder, 5 g;
- Enamel powder, 5 g;
- Super transparant powder, 2.5 g;
- Glaze paste, jar 2 g.

SEPARATE COMPONENTS OF ULTROPALINE SYSTEM:

- Dentine Powder 30g / 100g. 16 Shades of Vita Lumin: (A1, A2, A3, A3,5, A4, B1, B2, B3, B4, D2, D3, D4, C1, C2, C3, C4).
- Incisal Powder 30g / 100g: (S57, S58, S59, S60).
- Translucent enamel TS1, TS2, powder 30 g.
- Cervical Powder 30 g / 100 g: (CA, CB, CC, CD).
- Modelling Liquid for Dentin and Enamel, 50 ml / 100 ml / 200 ml.
- Modelling Liquid PREFORM for dentin and enamel, 50 ml / 100 ml / 200 ml.
- Liquid for powder glaze mixing, 50 ml / 100 ml.
- Liquid for powder opaquer mixing, 50 ml / 100 ml / 200 ml.
- Opaquer in Syringe, 4g. 16 Shades: (A1, A2, A3, A3,5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4).
- Glaze Paste in Syringe, 4g (Clear).
- Powder Glaze 20 g / 100 g.
- Paint Glaze in Syringe, 4 g. Shades: (Blue, Brown, Dark Brown, Grey Blue, Grey Ochre, Grey, Light Brown, Light Ochre, Ochre, Orange, Red Gum, White, Yellow).
- Intensive Dentine, Powder 30 g. Shades: (White, Yellow, Blue, Brown, Grey, Ochre, Red Gum).
- Powder Opaquers, 20g / 100 g. 16 Shades: (A1, A2, A3, A3,5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4).
- Opaque-crystals: Light, Medium, Dark, powder 10 g.
- Mamelon Mass 20 g.
- Transparent Powder 30 g / 100 g (T).
- Opalescent Enamel Modifier (Opal), powder 30 g.
- Opalescent Transparent Powder 30 g (OT).
- Smoky Opalescent Transparent Powder 30 g (SO). Shades: (SOrozy, SOblue, SOyellow).
- Super Transparent Powder 30 g / 100 g (ST).
- Opalescent Super Transparent Powder 30g (OST).
- Opalescent Super Transparent A Powder 30g (OSTA).
- Opalescent Super Transparent B Powder 30 g (OSTB).
- Opaquer Dentine Powder 30 g / 100 g. 16 Shades: (A1, A2, A3, A3,5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D1, D2, D3).
- Ultropaline Universal Shade Guide.
- Shade Guide for Dentine & Enamel.

