

New generation of
Dental materials



PRODUCT CATALOGUE CERKAMED

... because details are all-important

ABOUT US



We are a Polish company, we produce dental materials and we specialise in the manufacture of chemical materials for endodontic treatment.

Our goal

The production of dental materials to the world's highest quality for reasonable price.



What is the difference between us and other producers?

We listen carefully to the dentists' needs in order to develop and produce materials according to their requirement.



In the process of developing new technologies we work with scientific specialists from our top Polish Universities.



All our products are tested in independent laboratories. In the area of analytic research we only use the best in this field.



Our products are tested and evaluated for signs of biological reaction on the human body according to the requirements of the European standards.

Production is run under strictly monitored and pure conditions.

The manufacturing process in our laboratory is constantly monitored for effectiveness and safety over a long period of time. We care for the environment by using safe methods of disposal of chemical waste.



We have implemented Quality Management System according to the requirements of the norms EN ISO 9001 and EN ISO 13485 in the areas of design, production and distribution of the medical devices. Our products also meet the requirements of the directive for medical devices – MDD 93/42.



We look forward to each meeting with our customers at the fairs and conferences. This is when it is possible to gain valuable opinion about our products and find new inspiration for further development.



CONSULTANTS



Halina Pawlicka M.D., PhD, D.Sc

- » Professor of the Medical University in Łódź
- » Head of Department of Endodontics
- » Laureate of the special award of the Polish Ministry of Health
- » Member of European Society of Endodontology (ESE)
- » Country Representative by ESE
- » Author of 7 books and more than 230 published scientific dissertation in the range of dentistry
- » Since many years Prof. Pawlicka is working in her own dental office in Łódź



Jerzy Krupiński M.D., Ph.D, D.Sc

- » Head of the Department of the Propaedeutics in Restorative Dentistry CMUJ
- » Head of the Department of the Propaedeutics in Restorative Dentistry CMUJ
- » Author of more than 100 published scientific dissertation in the range of dentistry
- » Lecturer on universities in Manchester, Wurzburg, Boston. He has been lecturing during many domestic and international conferences
- » As the first one in Poland he has introduced method of one-visit endodontic treatment
- » Author of several handbooks, for example „Practical endodontics” (published by the “Kwintesencja” in 2008)
- » Discoverer of the composite insert conception, reducing polymerization shrinkage
- » Lecturer for postgraduate courses in range of endodontics, ergonomics and adhesive materials
- » Editor-in-chief in the magazine „Endodoncja.pl”, member of the science board in the English-language magazine “Endo „Endo”



Krzysztof Gończowski DDS, PhD - Dentist

- » Graduated from Jagiellonian University in Cracow. Assistant and lecturer on the Propaedeutics in Restorative Dentistry CMUJ in 2001-2008. Academic title of DDS in 2005 and from 2008 Specialist of Conservative Dentistry and Endodontics. Two scholarships in Germany: at the University in Koln and the University in Munich
- » Since 2005 lecturer and instructor for the dentists in Poland and abroad (lectures in over 30 countries) in range of endodontics, anaesthesia and medical rescue. Since 2006 General Manager of INDEXMEDICA Dental Clinic, Cracow, Poland
- » Dr. Gończowski is a member of Polish and international dental associations: PTS (Polish Dental Association), PTE (Polish Endodontic Society), IADR (International Association for Dental Research), ERC (European Resuscitation Council)
- » Author over 35 dissertations published in polish and foreign dental magazines. Owner of many international prizes for the research – f.ex. twice IADR CED Travel Stipend and Espertise Talent Award Europe for Young Scientists
- » In 2010 invented the system of endodontic microinstruments for removal of broken dental tools from the root canals (FRS – File Removal System, Chifa)



Dorota Chojnacka DDS-Dentist

- » In 1995 graduated from Medical University in Warsaw. Assistant and lecturer at the Department of Restorative Dentistry. Academic title of First-Professional Degree in Dentistry (DDS) in 1998. In 2009 she finished the Curriculum of Implantology at the J.W.Goethe University in Frankfurt am Main. Participant of many conferences and trainings in country and abroad
- » Member and founder of the Polish Endodontic Society (PTE)
- » Vice-president of the Polish Society of Microscopic Dentistry (PSSM)
- » Winner of “Top10” Prize Co-author of publication “Endodontics step by step”
- » She has been running her private dental office in Otrębusy near to Warsaw (www.dentart.pl). She specializes in endodontics and esthetic dentistry



Piotr Pawłowski DDS-Dentist

- » In 1995 graduated from Medical University in Łódź. After two years he gained the title of First-Professional Degree in Dentistry (DDS)
- » Participant of many congresses and trainings in Poland, Germany, Italy, USA and Ukraine
- » In 2009 he finished the Curriculum of Implantology at the J.W.Goethe University in Frankfurt am Main
- » In years 2008-2010 he was a medical consultant in the range of implantology in Optident Company, distributor of Sybron Implant Solutions (owner of several implantology brands: Pit Easy, Endopore, XTR Sybron)
- » Organizer and lecturer of many trainings in the range of implantology
- » Since 1996 he is running his own dental practice
- » Owner of a Private Dentist Clinic „Estetika” in Łódź



Piotr Mendel - Dentist

- » Member of Polish Endodontic Society
- » Specialist in field of microscope endodontology
- » Author of many thesis
- » For many years he is running his own dental practice in Cracow; he specializes in endodontics and esthetic dentistry

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- IODOFORM Iodoform pure p.a.
- METHYLENE CHLORIDE Dichloromethane pure p.a.
- 49 **EFFECTIVE ROOT CANAL TREATMENT**
- 55 SYNTEX Root canal sealing material

AVAILABLE SOON!

NEW!

2012

MTA+

Material for filling and rebuilding
root canals



1st award at EXPODENT

„The best dental product“

Active substances:

Calcium hydroxide and oxides: silicon,
iron, aluminium, sodium, potassium,
bismuth, magnesium,
calcium phosphate.

Available containers:

- MTA+ mini
set contains: 3 x 0,14 g of MTA+ powder + 1 ml of MTA+ liquid
- MTA+ standard
set contains: 6 x 0,14 g of MTA+ powder + 1 ml of MTA+ liquid
- MTA+ maxi
set contains: 10 x 0,14 g of MTA+ powder + 1 ml of MTA+ liquid
- MTA+ pro
set contains: 10 x 0,14 g of MTA+ powder + 1 ml of MTA+ liquid
+ MATRIX MTA+



**THE HIGHEST
QUALITY**
at reasonable
price

*From today available
in every dentist office!*



MTA+ by CerKamed ☺

History

In 1995 Torabinejad introduced to the market the substance MTA (Mineral Trioxide Aggregate). It is modified Portland cement. Since 1998 this material has been known as ProRoot MTA (Dentsply Tulsa Dental, USA). Another preparation of this type is MTA-Angelus (Angelus Solucoes Odontologicas, Londrina, Brazil).

2012 was the turning point in the history of these products. After 5 years of scientific research and clinical tests, the Company CERKAMED is ready to finalize the production technology and launch this innovative MTA+ on the dental market.

What MTA+ is and what it does?

MTA+ is the material for rebuilding root canals

Application:

Closure of perforation in root canal or furcation area

1. External or internal perforating root resorption treatment
2. Retrograde root canal filling (under root tip resection)
3. Preservation of pulp vitality (direct pulp capping, covering of pulp wounds after partial or total pulp amputation)
4. Apexification with MTA:

- a) Chronic inflammation of apical periodontitis caused by resorption in the area where contraction of the root apex has taken place
- b) Periapical treatment with MTA (for example necrosed tooth where growth is continuing)
- c) Perforation in the apex area (caused by iatrogenic enlargement of the apex root contraction or periapical perforation next to the apical foramen of the tooth).

The main endodontic treatment using MTA are: root canal perforations and progressing root resorption associated with perforation.

Why MTA+ is innovative?

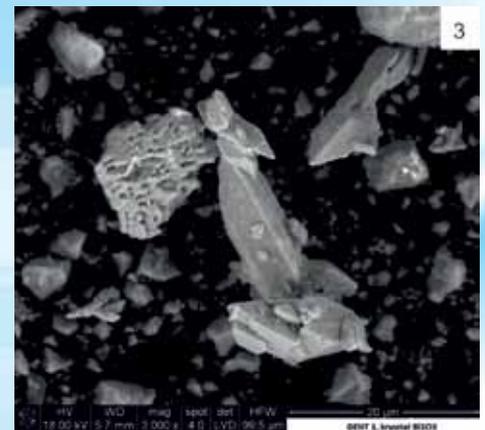
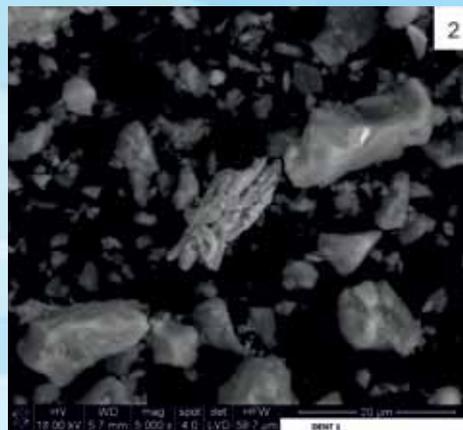
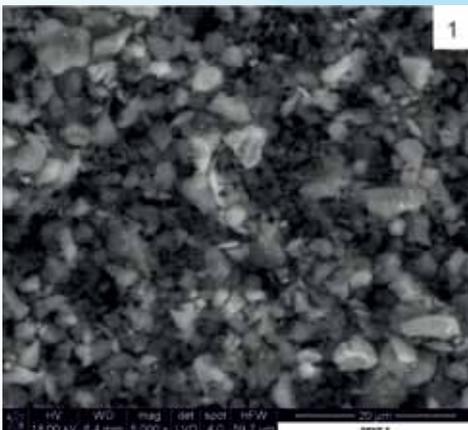
It is the only one characterized by nanoparticles

As a result of the technology developed by CERKAMED, the MTA+ particle is three times smaller than the smallest particles of material produced by other manufacturers.

Why the smaller grain is better?

- facilitates penetration of calcium ions to the demineralized tissue
- facilitates packing material in the application site
- facilitates preparation
- increases sealing process
- increases strength
- homogeneity and phasing of the material reduces setting time

Pictures of MTA grains taken with scanning microscope at Department of Materials Science and Ceramics, AGH University of Science and Technology



Pic.1. MTA+ Cerkamed.

Nanoparticles with similar size and compact granulation. Uniform structure facilitates preparation, application of the material and sealing.

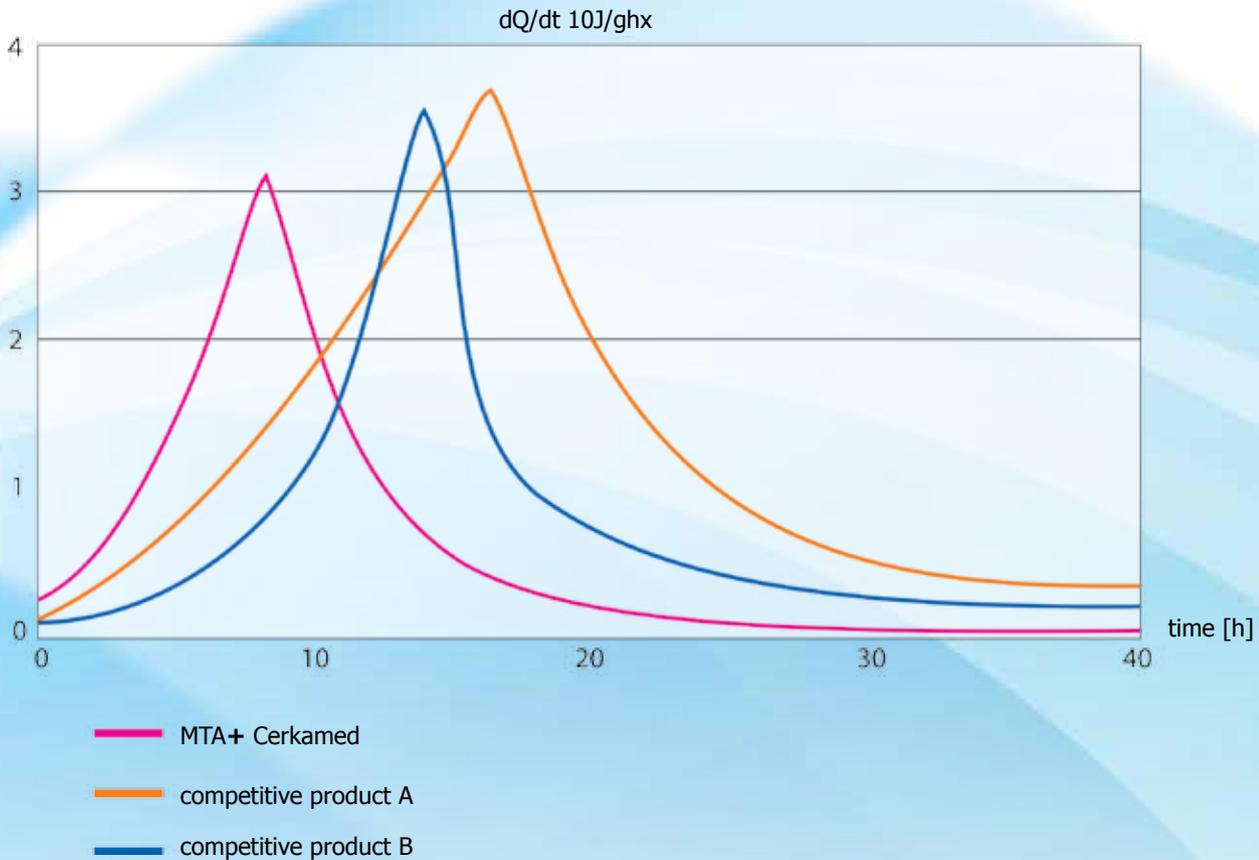
Pic. 2, Pic 3. Pictures of other MTA leaders on the market.

Particles with varied size which form agglomerates. Lack of uniform structure hinder the preparation and accurate application and decreases the sealing process of the filling.

MTA+ Cerkamed has the lowest level of the heat of hydration

The value of hydration heat, generated during the binding of the cement with water, affects the accumulation of heat in the early stages of hardening, which may cause a difference in the stresses of the materials and reduces the strength of the set material.

The determination of the hydration heat was held in BMR calorimeter (ICHF PAN) on 3 specimens, in a temperature of 25 °C, at Department of Materials Science and Ceramics, AGH University of Science and Technology.



MTA+ has the lowest degree of hydration heat.

MTA+ is the best crushing strength material

According with ISO 3107 standard, the crushing strength of peridentines shall maintain at least the level 35 MPa.

Mechanical strength tests showed that the value of the crushing strength of MTA+ Cerkamed is 10% higher than the crushing strength of other materials.

This test was conducted, in accordance with EN-ISO 3107 standard, by the Institute of Technology on A Zwick/Roell Z250 testing machine.

Research results

			h0	F max	F destruction	nominal deformation at the destruction moment	d0	s0
		MTA+ Cerkamed	mm	MPa	MPa	mm	mm	mm ²
■	1	competitive product A	5,93	62	41,7	0,9	4,2	13,85
■	2	competitive product B	6,1	61,5	40,5	0,8	4,01	12,63
■	3	competitive product C	5,95	60	36,7	0,6	4,12	13,33
■	4		6	61	26,3	0,4	4	12,57

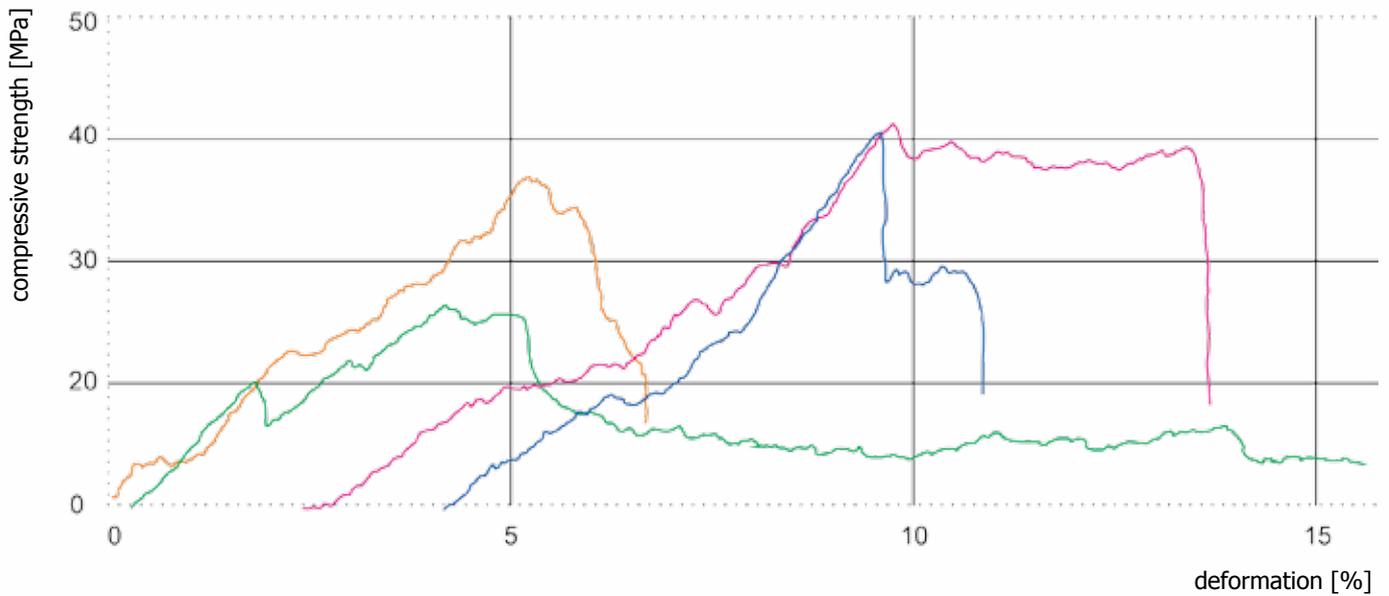
h0 - sample size

F max - maximum force

d0 - sample width

S0 - cross-section of the sample

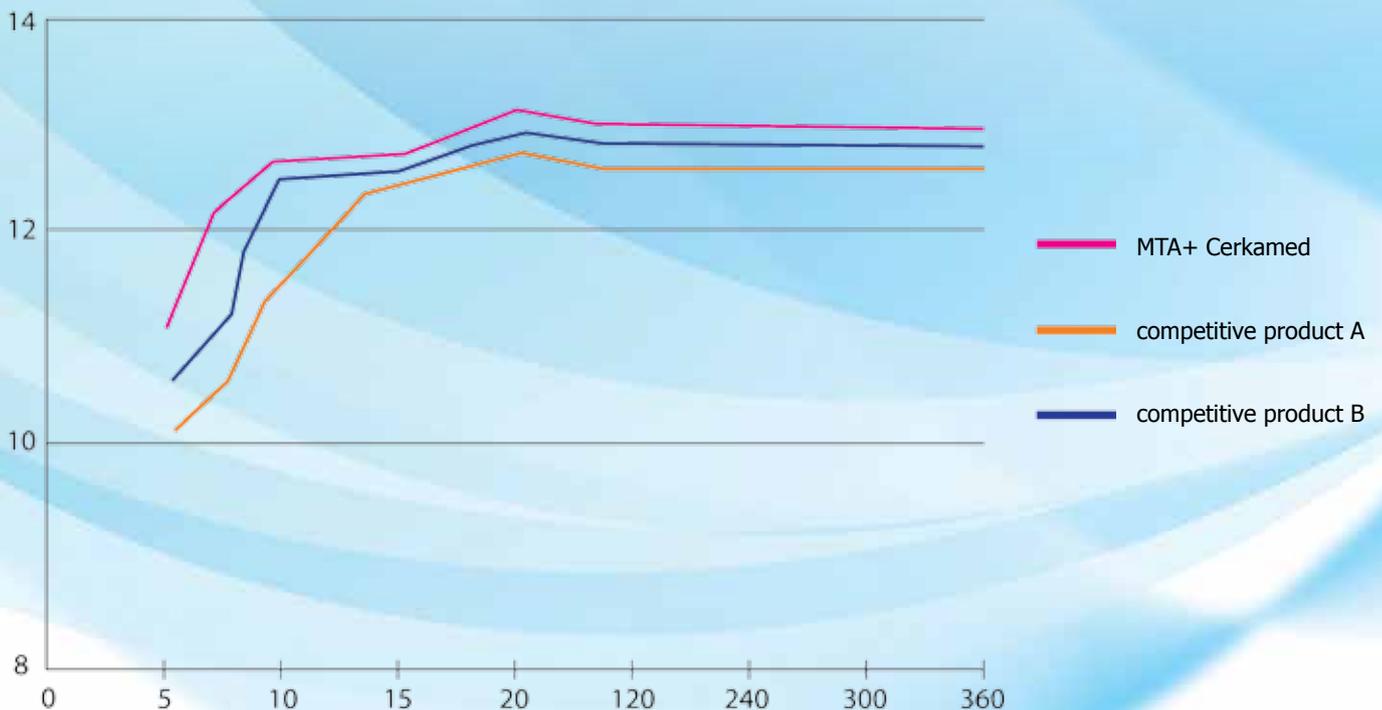
Series chart



Perfectly elaborated composition MTA+

Thanks to the high content of calcium ions, MTA+ Cerkamed has remineralizing and bacteriostatic properties. Silicon-calcium compounds contained in the product help to rebuild tissues after perforation and intracanal resorption. Bismuth oxide content results in images that are perfectly visible, and absorption of X-ray radiation by MTA+ Cerkamed is better than it is for other materials.

High PH value of MTA+ Cerkamed give an antibacterial effect s from the moment it is applied.

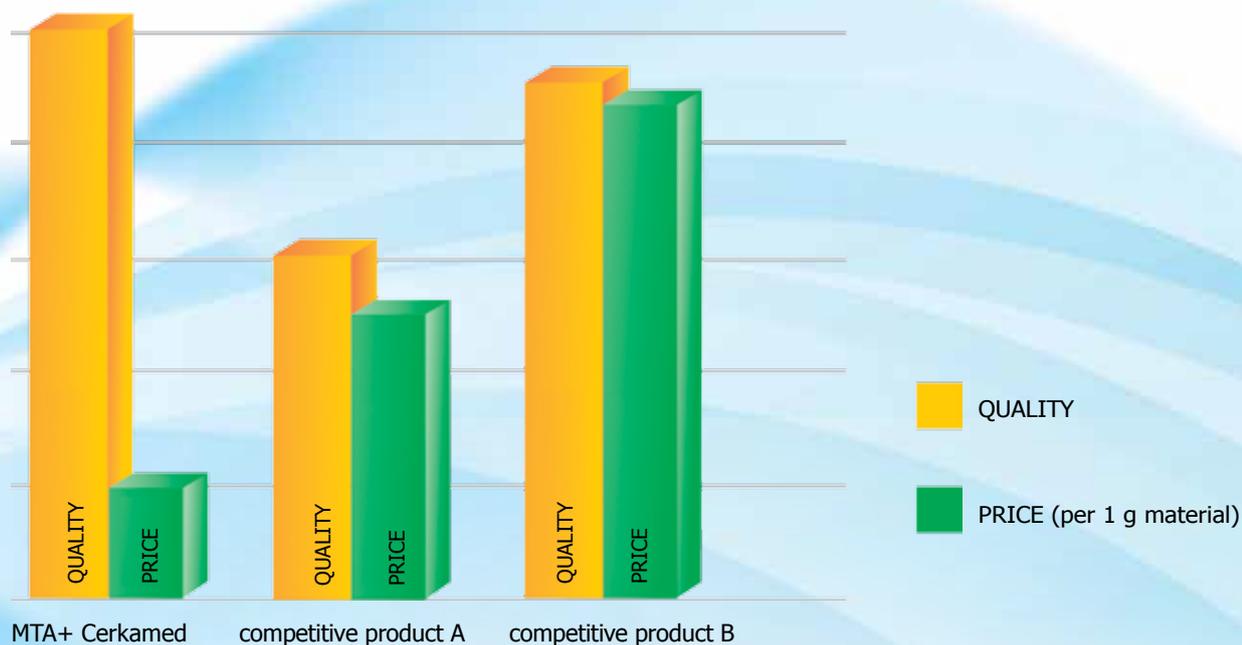


The diagram above shows that for the complete duration of time that the material is binding, PH remains at the high level so material MTA+ Cerkamed has the highest PH. From the moment of application its value increases to the level of 12,61, then lowers to a stable level of 12,54.

The highest quality at the reasonable price

Besides the functional and biological properties, MTA+ Cerkamed preparation is a breakthrough in the availability of high-quality materials for endodontics. It has contributed to the dissemination and wider use of endodontic microsurgery procedures due to its price, which is two or three times lower than other MTA preparations on the market.

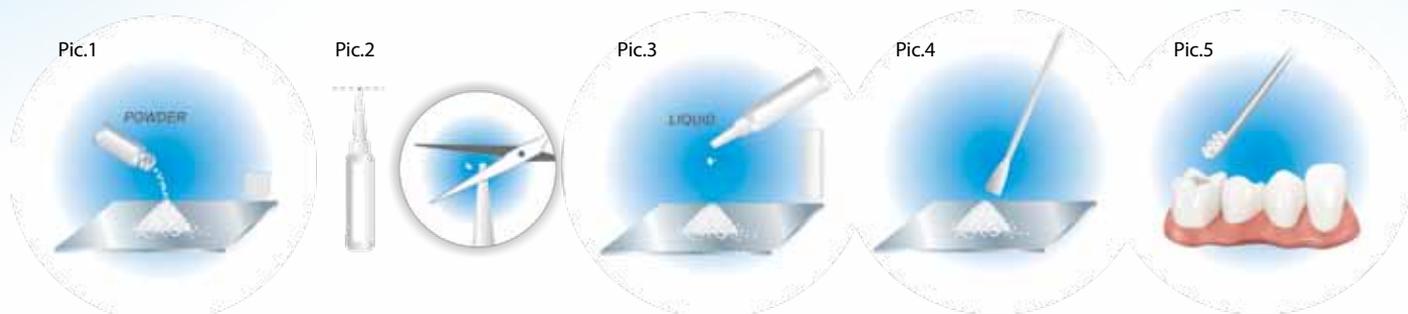
Balance between quality and price of comparable products.



Handling the product MTA+

1. Place on the mixing plate the content of MTA+ powder from the glass vial and 1-2 drops of MTA+ liquid measured by the pipette (Pic.1 - Pic.3).
2. Mix them within 30 sec to obtain consistency of the wet sand (Pic.4). If the consistency of the mixture is too dense or crumbly then it is necessary to add another drop of liquid (or distilled water).
3. Insert the preparation into the selected field by means of the amalgam carrier (Pic.5).

When mixed to MTA+ liquid (or distilled water) the prepared dose should be used within next 10 minutes.





MATRIX MTA+

MTA+ dosing block

MTA+ dosing block is used for forming precise doses of MTA+ product which is then ready for application into the tooth cavity or root canal.

- ✔ facilitates product application in the treatment location
- ✔ shortens the working time
- ✔ has grooves marked with the following diameters: 0,7; 0,8; 0,9; 1,00 mm.

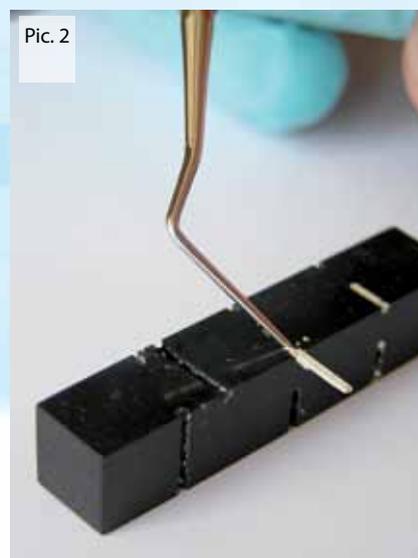
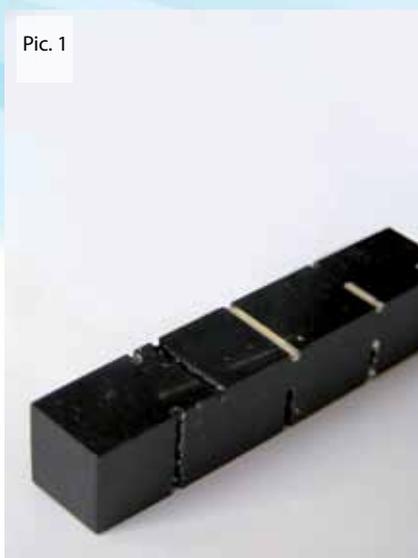


IT ENABLES PRECISE FORMING OF THE MTA+ PORTIONS



Handling the dosing block MTA+

1. Prepare MTA+ product by following the package leaflet provided by the manufacturer of MTA+ product. On each side of the dosing block there are different sized grooves of the diameter from 0,7 mm to 1,00 mm (Pic.1)
2. Place the preparation on one side of the dosing block so that it fills the chosen groove.
3. Formed preparation should be carried from the dosing block using the chosen sterile instrument (Pic.2)



NEW!

DENTAL TOOLS

for application **MTA+**

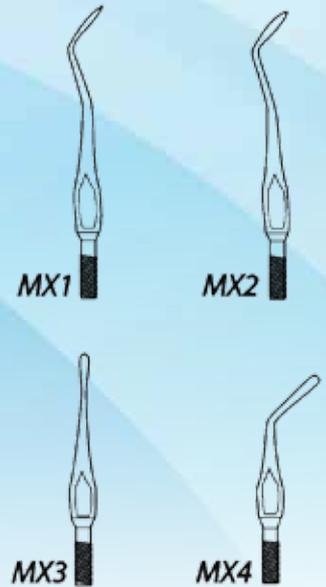
Specialised dental tools for MTA+ carry and application.

Reusable dental tools for handling and application the dose of prepared MTA+ material.

Tools are made of corrosive – resistant, highly-alloyed stainless steel, being of high stress strength (resistance to bending, compression).

Package contains:

- 2 handles threaded with both sides
- 4 replaceable tips



Now in sale!

Handling the DENTAL TOOLS for application MTA+

Pic. 1



Pic. 2



NEW!

MTA+ CARRIER

Specialised carrier for MTA+ preparation

Reusable dental tools for handling and application of prepared measure of MTA+ material. Our dental tools are made of corrosion-resistant stainless steel.

Inner diameter of the carrier:

- 0,8 mm
- 1,2 mm



Now in sale!

Handling the CARRIER for application MTA+



Pic. 1



Pic. 2

ENDO-STATION

Endodontic organizer



After several years of the follow-up work in a dental office and from the comments and feedback we received from our customers, helped us to develop a device: ENDO-STATION - PRO endodontic organizer. This innovative solution guarantees a convenient and safe work system characterized by its intuitive use and has no requirement for specialized training.

ENDO-STATION organizer is available in the following types:



PRO – extended version



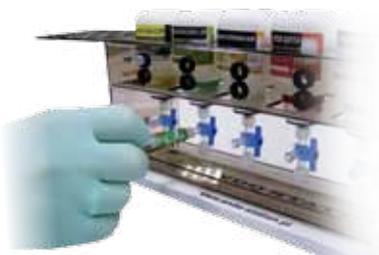
BASIC - basic version



Implementation of the ANTI-DROP adapters enabled us to develop a fluid collection system unprecedented so far.

All components are placed on the practical "organizer," which makes it comfortable and safe to use.

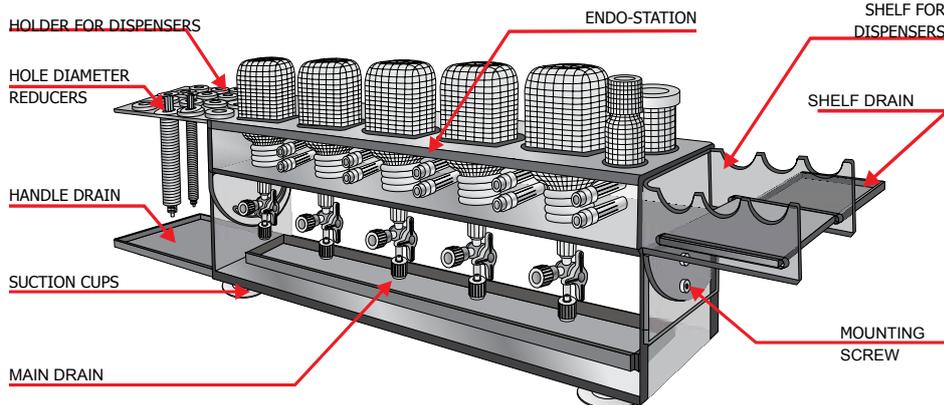
The entire operation can be performed with one hand, without having to repeatedly open bottles and pour liquids.



ENDO-STATION PRO includes:

a set of endodontic liquids in bottles fitted with ANTI-DROP adapters

- ▶ CHLORAXID 2%,
- ▶ CITRIC ACID 40%
- ▶ GLUCO-CHEX 2%
- ▶ CHLORAXID 5,25%
- ▶ ENDO-SOLUTION / ENDO-SOLUTION PREMIUM
- ▶ METHYLENE CHLORIDE– in PRO version
- ▶ A set of properly labeled 3 ml dispensers with luer - lock tip
- ▶ A set of endodontic needles, 0.3 mm in diameter, with lateral hole
- ▶ A set of flexible applicators



ENDO-STATION constitutes an unprecedented solution that will improve work in every dental office. In addition to its functionality, it is distinguished by the aesthetic design and stability, enhancing work safety.

ENDO-STATION is an innovative solution that brings a new quality to the everyday work of the endodontist. It enables the whole root canal rinsing procedure to be done much easier, faster and is extremely ergonomic. All needed components are placed in one place and they are available in an intuitively layout and safe for the patient and dental professional. Syringes are being filled with liquids and connected with the endodontic needles using one hand without the risk of spillage.



Krzysztof Gończowski

Krzysztof Gończowski DDS, PhD - Dentist

NEW!

ENDO-STATION MINI

Endodontic organizer



Version A



Version B

FUNCTIONALITY

SAFETY

COMFORT

ESTHETIC

ENDO-STATION MINI is an ideal solution that streamlines the work in every dental office. The moving parts of the device allow it to be adapted to individual requirements, significantly enhancing working comfort.

In addition to its functionality, it is distinguished by the aesthetic design and stability, further increasing safety.

The Organizer is available in two versions that can be delivered in one of three colors:



blue



green



brown

Everything under control!

FLUID APPLICATION

Bottle with adapter

As the only producer worldwide we have introduced a bottle with an adapter making it easier to pour the liquid into the syringe. To fill the syringe easy and fast, screw the end of the syringe into the adapter's opening located at the neck of the bottle. Tilt the bottle and draw the liquid directly into the syringe. It eliminates the risk of liquid spillage while filling the product and prevents from noxious vapours evaporating.



With the adapter you can use an disposable syringes that available on the market – both luer-lock and lock type.



- comfort*
- safety*
- efficiency*
- easy identyfication*

Now you have the set!

**To each bottle we add
a labelled syringe + adapter**

Easy identification of products. Safe application

In order to make the work easier and to identify the product faster, we offer sets of labelled syringes that are ready to use with our products.

These are the highest quality syringes labelled with the product name and colour code: colour of the label on the syringe matches the colour of the product label on the device.

This solution reduces risk of mistake and makes product identification faster.



Syringes are equipped with luer-lock thread that enables screwing the needle onto the syringe. The rubber ring on the plunger ensures perfect control and smoothness of movement when filling and dispensing the product. Luer-lock system is the best protection against accidental spillage of the product during dispensing. With our dispensers you can use all types of needles available on the market.

FOR EASY IDENTIFICATION OF PRODUCT AND SAFE APPLICATION THERE ARE:



SET OF LABELLED DISPENSERS

*sold separately

CHLORAXID 2% CHLORAXID 5,25%

Liquid for root canal rinsing

Active substance:
sodium hypochlorite

Available packages:
- bottle of 200 g
- bottle of 400 g
+ adapter
+ labelled dispenser

Properties

- ✓ During mechanical canal widening it removes dead pulp debris
- ✓ It cleans the canal and removes the smear layer to expose dental tubules orifices before sealing of the canal.
- ✓ It prevents teeth discoloration that may occur after filling of the root canal which was not rinsed
- ✓ CHLORAXID 5,25% is recommended for rinsing the root canals with pulp inflammation



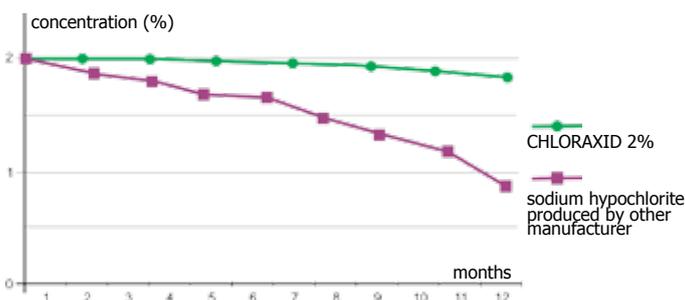
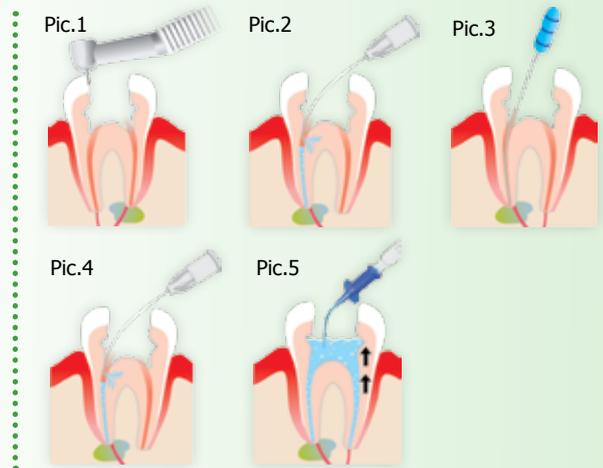
CHLORAXID 2% and CHLORAXID 5,25% have a lytic effect in relation to dead and vivid tissue, dissolving organic part of smear layer. It is concerned with main root canal and lateral canals which are inaccessible with instruments. CHLORAXID 2% has cleansing and whitening effect on the tooth hard tissues.

Handling the product CHLORAXID 2% CHLORAXID 5,25%

1. Open the pulp cavity, remove the content to expose the root canal orifices (Pic.1)
2. Rinse initially with sodium hypochlorite (Pic.2)
3. Remove the inflamed pulp from the root canal (Pic.3)
4. Rinse copiously with sodium hypochlorite, simultaneously prepare the canal mechanically – insert the liquid into the root canal by means of the syringe with needle with lateral portal (Pic.4)
5. Aspirate by means of ENDO-ASPIRATOR liquid together with canal content (Pic.5)

During root canal preparation it is recommended to use products containing disodium edetate, for example ENDO-SOLUTION, ENDO-PREP.

Sodium hypochlorite, contained in the product, inactivates immediately on contact with organic substance. While the concentration of sodium hypochlorite is decreasing, the time of rinsing and volume of liquid should be simultaneously increased.



Laboratory test. Comparison of changes in the sodium hypochlorite concentration while using it in the dental office. Usage of adapter that makes it easy to take the liquid directly from the bottle, results in sustained concentration of CHLORAXID 2% for a longer time.



Laboratory test. Comparison of changes in the sodium hypochlorite concentration while using it in the dental office. Usage of adapter that makes it easy to take the liquid directly from the bottle, results in sustained concentration of CHLORAXID 5,25% for a longer time.

CITRID ACID 40%

Liquid for root canals rinsing

FOR EASY IDENTIFICATION OF PRODUCT AND SAFE APPLICATION THERE ARE:



SET OF LABELLED DISPENSERS

**sold separately*

Available packages:

- bottle of 200 g
- + adapter
- + labelled dispenser

Active substance:

citric acid 40%



CITRIC ACID 40% removes the smear layer which appeared during mechanical root canal treatment.

It allows revealing of the dental tubules orifices, precise cleaning of the inside from the pulp debris and then for precise sealant penetration.

Citric acid is a substance common in nature and completely safe for human health and for the environment.

It undergoes a complete biodegradation.

For dental treatment it is recommended to use the solution of 30%-40% concentration.

While rinsing of the root canal do not apply a heavy stream of the liquid - it can cause the liquid penetration to the periapical tissues and damage them.

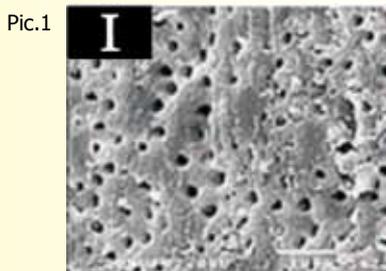
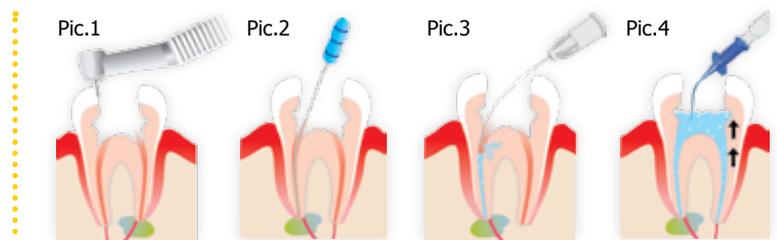
SHAKE BEFORE USE !!!

Properties

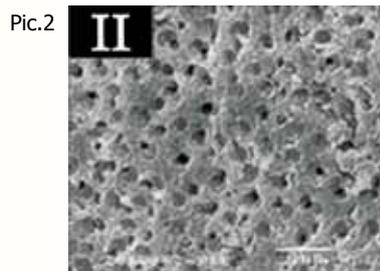
- ✔ Enhances mechanical cleaning of the root canal
- ✔ Removes the smear layer from the walls revealing the dentinal tubules orifices
- ✔ Enables revealing, cleaning and precise filling of the canals

Handling the product CITRID ACID 40%

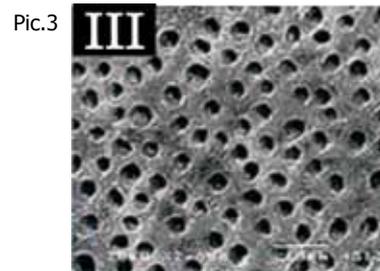
1. Get access to root canals (Pic.1)
2. Treat the canal mechanically using CHLORAXID and products intended for root canal Product (ENDO-SOLUTION, ENDO-PREP) (Pic.2)
3. Irrigate root canal with CITRIC ACID 40%; apply the liquid to the root canal by means of the syringe with a needle with side portal (Pic.3)
4. Use ENDO-ASPIRATOR to aspirate the irrigation solution and all the debris remaining in the root canal (Pic.4)



Pic.1. Wall of the canal after applying the sodium hypochloride of 5.25%, some of the dental tubules orifices are still closed (photo in electron microscope x1200).



Pic.2. Wall of the canal after applying EDTA 15%, some of the dental tubules orifices stay closed (photo in electron microscope x 1200).



Pic.3. Walls of the canal after applying CITRID ACID 40%. All the dental tubules orifices are open and smear layer is completely removed (photo in electron microscope x 1200).

FOR EASY IDENTIFICATION OF PRODUCT AND SAFE APPLICATION THERE ARE :



SET OF LABELLED DISPENSERS

**sold separately*

The action of EDTA is to react with mineral components of the tooth's hard tissues. By absorption of calcium from the root canal, EDTA softens the tissues and makes the mechanical drainage of the root canal easier.

It is recommended for mechanical Product of the root canals.

It helps in drainage and cleansing of the root canal, removes smear layer to expose dental tubules orifices. Disodium edetate (EDTA) contained in the product by rinsing calcium and magnesium ions softens the surface layer of the dentine and makes it easier to remove it and restore the root canal.

ENDO-SOLUTION

Liquid for root canal widening

Active substance:
EDTA 15%

Available packages:

- bottle of 50 ml
- bottle of 120 ml
- + adapter
- + labelled dispenser



*see also: ENDO-PREP CREAM,
ENDO-PREP GEL



ENDO-SOLUTION PREMIUM

Active substance:
EDTA 17% + surfactants

Available packages:
- bottle of 120 ml
+ adapter
+ labelled dispenser

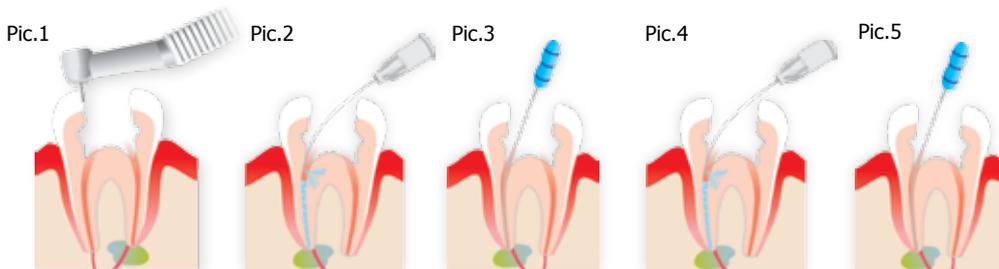


Also available in a set:

- bottle of 120 ml
- + adapter
- + ENDO - ASPIRATOR
- + set of labeled dispensers
- + set of applicators

Handling the product ENDO-SOLUTION, ENDO-SOLUTION PREMIUM

1. Open the pulp cavity, remove the content to expose the root canal orifices (Pic.1)
2. Rinse initially with sodium hypochlorite (Pic.2)
3. Remove the inflamed pulp from the root canal (Pic.3)
4. Insert ENDO-SOLUTION into the root canal (Pic.4)
5. Prepare the canal mechanically while simultaneously rinsing with sodium hypochlorite (CHLORAXID) (Pic.5)



ENDO-SOLUTION PREMIUM liquid is very efficient to remove inorganic part of the smear layer from the root canal thanks to combination of two active substances: disodium edetate (chelation of calcium ions) and surfactants – detergents based on ethyl ether (reduction of surface tension and cytotoxic action on micro-organisms).

Components of ENDO-SOLUTION PREMIUM are highly synergistic that directly results in improvement of clinical effects of endodontic treatment. It especially concerns the teeth with complicated anatomy and complex root canal system.



Krzysztof Gończowski DDS, PhD – Dentist

Krzysztof Gończowski

GLUCO-CHEX 2%

Liquid for root canal rinsing

FOR EASY IDENTIFICATION OF PRODUCT AND SAFE APPLICATION THERE ARE:



SET OF LABELLED DISPENSERS

*sold separately

Available packages:

- bottle of 200 g
- + adapter
- + labelled dispenser

Active substance:

chlorhexidine digluconate 2%



* see also: GLUCO-CHEX 2% GEL, GLUCOSITE, GLUCOSITE GEL

Chlorhexidine digluconate is used as a rinsing and antibacterial agent. It is more efficient than sodium hypochlorite against such microorganisms as E.faecalis that are often responsible for unsuccessful endodontic treatment.

Properties

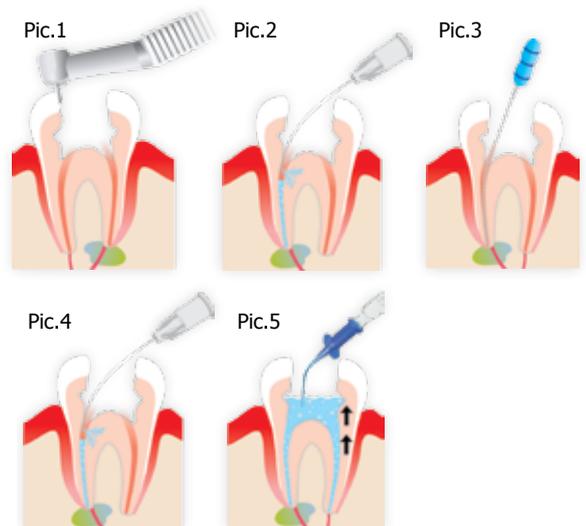
- ✓ Recommended for rinsing of the root canals with pulp inflammation
- ✓ Highly recommended for endodontic re-treatment
- ✓ Highly efficient against Enterococcus faecalis (bacterial strain immune to NaOCl)
- ✓ Do not cause teeth discoloration

Handling the product GLUCO-CHEX 2%

1. Open the pulp cavity, remove the content to expose the root canal orifices (Pic.1)
2. Rinse initially with GLUCO-CHEX 2% liquid (Pic.2)
3. Remove the inflamed pulp from the root canal (Pic.3)
4. Rinse copiously with GLUCO-CHEX 2% liquid, simultaneously prepare the canal mechanically – insert the liquid into the root canal by means of the syringe with side portal (Pic.4)

During root canal Product it is recommended to use products containing disodium edetate, for example ENDO-SOLUTION, ENDO-PREP CREM, ENDO-PREP GEL.

5. Aspirate by means of Endo-aspirator liquid together with canal content (Pic.5)



CAUTION !!!

After use of GLUCO CHEX 2% do not rinse directly with any NaOCl solution!!! While rinsing root canals, it is compulsory to rinse with physiological saline between rinsing with sodium hypochlorite and chlorhexidine digluconate. Rinse copiously!

It prevents from a tawny deposit precipitating as a result of mixing NaOCl and CHEX.

FOR EASY IDENTIFICATION OF PRODUCT
AND SAFE APPLICATION THERE ARE



**SET OF LABELLED
DISPENSERS**

**sold separately*

CANAL CLEAN

Liquid for rinsing and drying root canals

Active substance:
Isopropyl alcohol, acetone

Available packages:
- bottle of 45 ml
+ adapter
+ labelled dispenser

CANAL CLEAN is intended for use during dental treatment to rinse the root canals. It accelerates drying of the root canal before obturating.

Isopropyl alcohol contained in the product is hygroscopic, it dries the tooth tissues in a very short time, it reduces also surface tension, because of that liquid can go even into very small tubules.

Other components of the product: acetone and ethyl acetate degrease the tooth surface. All substances used in that product are characterized by short evaporation time, so drying and degreasing the surface is possible within a few seconds.

CANAL CLEAN is also recommended as the last rinsing agent.

It is the ideal product to remove dressing containing iodoform.



Handling the product CANAL CLEAN

To dry the root canal:

1. Prepare the root canal mechanically (Pic.1)
2. As the last product use CANAL CLEAN, apply by means of syringe with endodontic needle, next dry the canal by means of paper points (Pic.2)

To remove dressing with iodoform:

1. Apply product to the filled root canal (Pic.3)
2. Remove dressing with iodoform, if necessary use the next measure of the product (Pic.4)

Pic.1



Pic.2



Pic.3



Pic.4



Piotr Pawłowski DDS-Dentist

CANAL CLEAN is perfect for drying and degreasing the root canals. It contains substances with short evaporation time, so drying and degreasing of the surface is possible within a few seconds.

It is perfect for removal of the temporary root canal dressings containing iodoform.

Product is equipped with luer-lock adapter that makes it easy to take the liquid directly from the bottle using the labelled dispenser and an endodontic needle.

Because of all those advantages working with this product is safe and easy

Piotr Pawłowski

ENDO-PREP CREAM

Cream product for chemo-mechanical root canals widening and preparation

Available packages:

- syringe of 2 ml
- syringe of 5 ml
- syringe of 10 ml
- + set of applicators

Active substance:

EDTA 15% , urea peroxide 10%



The product is designed for chemo-mechanical root canal cleansing and preparation. Through lubricant substances contained in the product working with the root canal instruments is easier and the risk of tool breakage within the root canal is minimized.

*see also: ENDO-SOLUTION, ENDO-SOLUTION PREMIUM

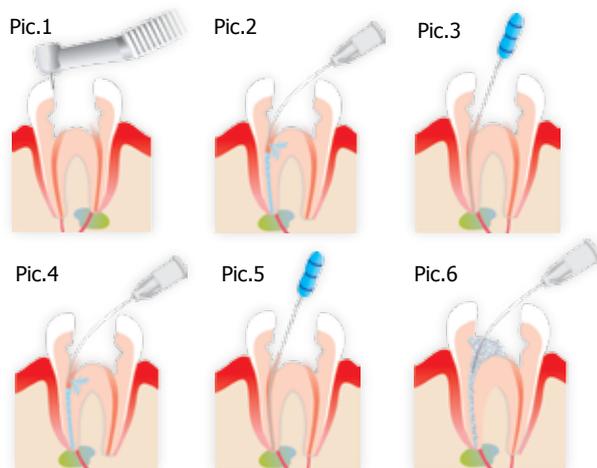
Description of activity

Activity of disodium edetate is based on reaction between EDTA and mineral components of the tooth's hard tissue. By absorption of calcium from the root canal, disodium edetate softens tissue and makes mechanical drainage easier.

Urea peroxide contained in the product in reaction with sodium hypochlorite (i.e. CHLORAXID) releases active oxygen and causes bubbling effect. As a result the root canal is being cleaned from any debris remaining after mechanical preparation. As a result of this process, temperature in the root canal is getting higher and reaction between sodium hypochlorite and bacterial flora is even more active.

Handling the product ENDO-PREP CREAM

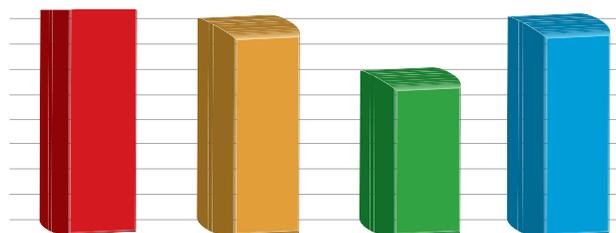
1. Open the pulp cavity, remove the content if the chamber in order to prepare access to the root canals (Pic.1)
2. Rinse initially with sodium hypochlorite (Pic.2)
3. Remove inflamed pulp from the root canal (Pic.3)
4. Insert ENDO-PREP CREAM into the root canal (Pic.4)
5. Prepare the canal mechanically while simultaneously rinsing with sodium hypochlorite (CHLORAXID) (Pic.5)
6. When preparation of the root canal is finished, rinse the ENDO-PREP CREAM out of the canal and the pulp cavity by means of sodium hypochlorite until the bubbling process is finished and the air bubbles are gone (Pic.6).



Properties

- ✔ Contains urea peroxide which together with NaOCl causes the bubbling effect and self-cleaning of the root canal
- ✔ Contains surfactants making introduction of the tool into the root canal easier and minimizing the dangers of congestion or breakage in the root canal
- ✔ Disodium edetate (EDTA) contained in the product by rinsing calcium and magnesium ions softens the surface layer of the dentine and makes it easier to remove it and restore the root canal
- ✔ The perfectly composed, creamy and the consistency of the product guarantees easy of application and the possibility of placing the product directly onto the tool
- ✔ Product has a dense creamy consistency but after application into the root canal, under higher temperature, it becomes slightly fluid and could easily reach all fissures of the root canal system
- ✔ Implementation of the luer-lock syringes guarantees safe application - syringes are equipped with luer-lock thread that enables connection with the needle by screwing it onto the syringe. Luer-lock system is the best protection against accidental spillage of the product during application

Action rate comparison of products containing EDTA*



* Research based on questionnaire survey among dentists during CEDE 2011

- ENDO-PREP CREAM CERKAMED
- american market leader
- brazilian market leader
- german market leader

ENDO-PREP GEL

Gel for root canal widening

Description of activity

Product is intended for use during chemo-mechanical root canal rinsing and preparation. Surfactants contained in the product make introduction of the tool into the root canal easier and minimize danger of its congestion or breakage in the root canal. Activity of the disodium edetate is based on reaction between EDTA and mineral components of the tooth's hard tissues. By absorption of calcium from the root canal, disodium edetate softens the tissue and makes mechanical drainage of the root canal easier.

Active substance:
EDTA 15%

Available packages:
- syringe of 2 ml
- syringe of 5 ml
- syringe of 10 ml
+ set of applicators



*see also: ENDO-SOLUTION, ENDO-SOLUTION PREMIUM

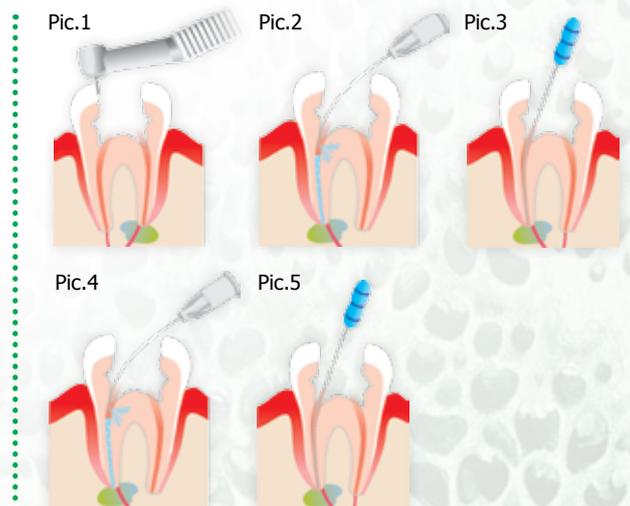
Properties

- ✔ Contains surfactants making introduction of the tool into the root canal easier and minimizing danger of its congestion or breakage in the root canal
- ✔ Disodium edetate (EDTA) contained in the product by rinsing calcium and magnesium ions softens the surface layer of the dentine and makes it easier to remove it and restore the root canal
- ✔ Perfectly composed gel consistency guarantees easy of application and possibility of placing the product directly onto the tool
- ✔ Implementation of the luer-lock syringes guarantees safe application - syringes are equipped with luer-lock thread that enables connection with needle by screwing it onto the syringe. Luer-lock system is the best protection against accidentally spillage of the product during application



Handling the product ENDO-PREP GEL

1. Open the pulp cavity, remove the content of the chamber in order to prepare access to the root canals (Pic.1)
2. Rinse initially with sodium hypochlorite (Pic.2)
3. Remove inflamed pulp from the root canal (Pic.3)
4. Insert ENDO-PREP GEL into the root canal (Pic.4)
5. Prepare the canal mechanically while simultaneously rinsing with sodium hypochlorite (CHLORAXID) (Pic.5)



Piotr Mendel DDS-Dentist

ENDO-PREP GEL is different than the majority of similar product available on the market. It is transparent – invaluable for preparation of difficult cases. Frequently application of white colour product eliminates necessity of working under eye control. There is no problem of this kind by working with ENDO-PREP GEL. It contains EDTA. It's also intended for root canal preparation as a great lubricant.

Piotr Mendel

CALCIPAST

Calcium hydroxide paste



GRAND PRIX
DENTEXPO

Available packages:

- syringe of 2,1 g
- + set of applicators

Active substance:

Calcium hydroxide



CALCIPAST – pH min. 12,5

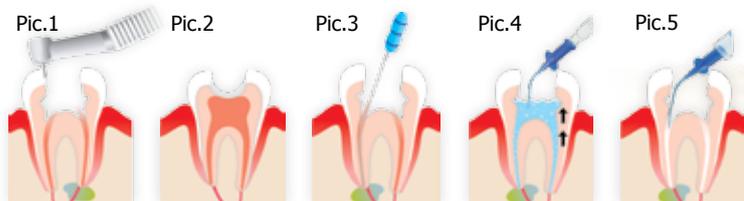
Handling the product CALCIPAST

As temporary root canal filling:

1. Prepare the canal mechanically using materials for chemo-mechanical Product (ENDO-SOLUTION, ENDO-PREP CREAM), rinse copiously (CHLORAXID) and dry the canal (for example with CANAL CLEAN) (Pic.3)
2. To dry the root canal thoroughly use ENDO-ASPIRATOR and paper points (Pic.4)
3. Fill the canal with CALCIPAST by using the applicator to the depth of 1/3 of the apex opening. Remove excess of paste, close the cavity tightly (for example with TOTAL BLEND), leave for about 30 days, after that period, replace temporary filling (Pic.5).

As a temporary dressing by indirect and direct pulp capping:

1. Prepare the cavity (Pic.1)
2. Apply product by means of attached applicator (Pic.2).



Calcium hydroxide material enriched with barium sulphate is recommended:

- ➡ As biological dressing for indirect and direct pulp-capping treatment
- ➡ As temporary filling of the root canals

It improves rebuilding of the damaged tissues and has a remineralising effect.

Appropriately chosen chemical composition ensures fast development of secondary and reparative dentine.

Main advantage of this product is its long lasting anti-bacterial effect and stimulation of the creation process of mineralized barriers.

It has also a drying effect with is significant in cases of persistent inflammatory exudates.

CALCIPAST is a soft, non-hardening material, after placing it into the root canal, controlled, long lasting release of calcium ions start.

CALCIPAST is radiopaque, it contains barium sulphate that results in its perfect visibility on X-rays.

Properties

- ✔ It stimulates rebuilding of the damaged tissues and creates reparative dentine by odontoblasts Reduces inflammation
- ✔ Ensures protection of pulp from the thermo-electric stimuli
- ✔ Prevents penetration of exudates into the root canal system
- ✔ Anti-bacterial effect

CALCIPAST + I

Calcium hydroxide paste with iodoform

Available packages:

- syringe of 2,1 g
- + set of applicators

Active substance:

Calcium hydroxide,
iodoform

Properties:

- ✔ Reduces inflammation
- ✔ It has anti-bacterial and drying effect
- ✔ It stimulates rebuilding of damaged periapical tissues and creates reparative dentine by odontoblasts
- ✔ Prevents penetration of exudates into the root canal system

Iodoform contained in CALCIPAST+I has a much stronger effect.

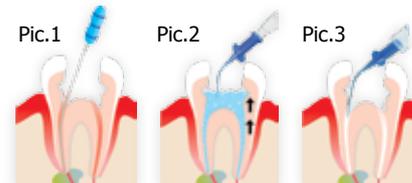
It is highly recommended for treatment of infected root canals.



CALCIPAST – pH min. 11

Handling the product CALCIPAST+I

1. Prepare the canal mechanically using materials for chemo-mechanical preparation (ENDO-SOLUTION, ENDO-PREP CREAM, ENDO-PREP GEL), rinse copiously (CHLORAXID) and dry the canal (for example CANAL CLEAN) (Pic.1)
2. To dry the root canal thoroughly use ENDO-ASPIRATOR and paper points (Pic.2)
3. Fill the canal with CALCIPAST+I by using the applicator to the depth of 1/3 of the apex opening. Remove excess of paste, close the cavity tightly (for example with TOTAL BLEND), leave for a period of 1 week up to 30 days, after that period replace temporary filling (CALCIPAST) (Pic.3)



NEW!

CALCIPAST FORTE

Calcium hydroxide paste with iodoform and p-chlorophenol

Available packages :

- syringe of 2,1 g
- + set of applicators

Active substance:

Calcium hydroxide, iodoform, p-chlorophenol



* to remove dressing with jodoform use: CANAL CLEAN

**Ergonomic handle
+
set of elastic applicators**

Properties

- ✓ Reduces persistent inflammation
- ✓ It has extended anti-bacterial and drying effect
- ✓ It remineralizes tooth tissues

CALCIPAST FORTE contains iodoform and p-chlorophenol, where on compliments the effects of the other.

It is intended for use as material for temporary root canal filling with persistent inflammation.

Perfect visibility on X-rays.

TOTAL BLEND

Light - cured material based on calcium hydroxide



1st award at EXPODENT
„The best dental product“

Available packages:

- syringe of 0,5 g
- syringe of 1,5 g
- + set of applicators

Active substance:

calcium hydroxide 15%



Product available in three shades:

TOTAL BLEND WHITE – enamel shade

TOTAL BLEND DENTINA – dentine shade

TOTAL BLEND BLUE – blue color

NEW!



CAUTION!

After use, keep the syringes securely closed, avoid light exposure.

Light cured material is used as a temporary, hermetic filler, closing the access to the tooth cavity, especially useful for application in deep tooth fissures.

Appropriately arranged chemical composition ensures rapid remineralization of the tissue and long lasting anti-bacterial effect. Strong alkaline environment neutralizes and soothes the inflammation effect.

Product contains calcium hydroxide and hydroxyapatite which makes the foundation for rebuilding the connective tissue responsible for the mechanical endurance of the bones.

That product has high endurance and is resistant to expansion. It is perfect as a foundation for composites. Visible on the X-ray.

Properties

- ✔ Protects the endodontic dressing in the root canal
- ✔ Keeps the devitalizing product in the tooth cavity and protects the oral tissues from its harmful action
- ✔ Protects throughout the procedure until the crown rebuilding of the root canal
- ✔ Foundation for composites

NEW!

TOTAL BLEND BLUE

*Preferred
by endodontists*

Light - cured material based on calcium hydroxide in blue color



Indicates root canal orifices



High content of calcium hydroxide causes remineralization of the hard tissues



Visible in the X-ray

Handling the product TOTAL BLEND

As a foundation for composite

1. Rinse and dry the problem area (Pic.1)
2. Choose shade of product (dentina or white) and apply a thin layer on the bottom of the cavity (Pic.2)
3. Light cure for 20 seconds (Pic.3)

Pic.1



Pic.2



Pic.3



As a hermetic closing of canal inlay:

1. Treat and fill the root canal with a chosen medicine (Pic.4)
2. Apply a thin layer of TOTAL BLEND and light cure for 20 seconds, applying a few layers of the material for getting the perfect seal is recommended (Pic.5)
3. Fill the cavity with a chosen material (Pic.6)

Pic. 4



Pic.5

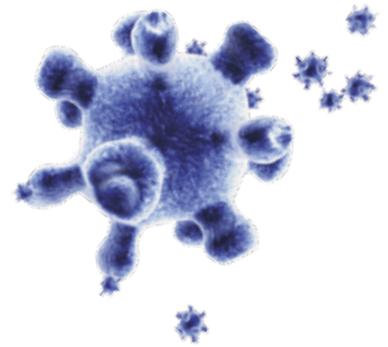


Pic.6



GLUCO-CHEX 2% GEL

Gel for root canal preparation



Available packages:

- syringe of 5 ml
- syringe of 10 ml
- + dispenser
- + connector
- + set of applicators

Active substance:

chlorhexidine digluconate 2%

Product with peach aroma



*see also: GLUCO-CHEX 2%, GLUCOSITE GEL

GLUCO CHEX 2% GEL can be used as a temporary dressing.

In order to make a temporary dressing mix calcium hydroxide with gel to obtain creamy consistency.

Place the paste into the root canal and fill the canal tightly.

Close the dressing tightly with a temporary filling.

Pumping system for GLUCO-CHEX 2% GEL

As one of the few manufacturers in the world, we use a system (adapter) for pumping the product from a large syringe into the small syringe.

Implementation of best quality three-element syringes of luer-lock type (with thread) guarantees safe pumping of product from one syring into the other one.

Usage of the luer-lock type syringes guarantees safe application - syringes are equipped with luer-lock thread that enables connection with the needle by screwing it onto the syringe. Luer-lock system is the best protection against accidental spillage of the product during application.



CAUTION !!!

After use of GLUCO CHEX 2% do not rinse directly with any NaOCl solution!!!

While rinsing root canals, it is compulsory to rinse with saline between rinsing with sodium hypochlorite and chlorhexidine digluconate.

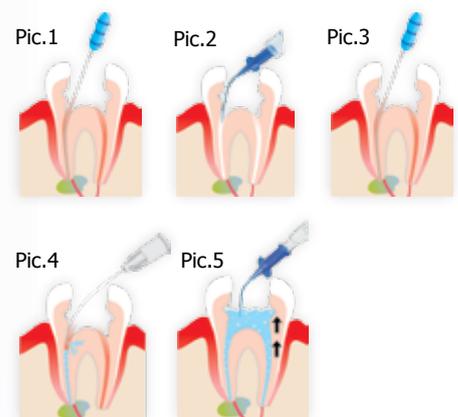
Rinse copiously!

It prevents from a tawny deposit precipitating as a result of mixing NaOCl and CheX.



Handling the product GLUCO-CHEX 2% GEL

1. Remove inflamed pulp from the root canal (Pic.1)
2. Insert product into the root canal by means of the syringe with attached applicator or directly on the canal instrument (Pic.2)
3. Prepare the root canal mechanically (Pic.3)
4. Next rinse the root canal copiously with appropriate rinsing agents, for example GLUCO-CHEX 2%, distilled water, ISOPROPYL ALCOHOL, CANAL CLEAN (do not rinse with sodium hypochlorite) (Pic.4)
5. Aspirate by means of ENDO-ASPIRATOR the liquid and content of the root canal (Pic.5)



HYDROCAL

Calcium hydroxide for making pastes

HYDROCAL is the calcium salts mixture for making dental filling paste material.

The main advantage of this product is its stimulating action for creating mineralized barriers.

It neutralizes the environment and soothes the inflammable reaction.

It also stimulates the pulp tissues for creating dentine scar (creating the dentine bridge in the area of the exposed pulp) and stimulates the odontoblasts for the creation process of reparative dentine.

It has also a drying effect that has a great result in the case of persistent inflammatory exudates.

It causes dissolving of the residue of vital pulp after anaesthetic extirpation (desensitizing effect) as well as dissolving organic residue in places which are not accessible by root canal instruments.

Available package:

- container of 10 g

Active substance:

calcium hydroxide,
calcium salts,
hydroxyapatite

moisture
absorber



Application

- Temporary root canal dressing used between appointments
- Dressing causing remineralisation of partially decalcified dentine
- Treatment dressing for indirect pulp capping, stimulating dentine bridge formation
- Antibacterial dressing for disinfecting canals during treatment of irreversible inflammations and necrosis of the pulp as well as continuous inflammation of the periapical tissues
- Temporary root canal filling stimulating rebuilding of bones during treatment of continuous inflammation of periapical tissues
- Root canal filling for the broken roots inside the dental alveolus
- Root apex filling used for so-called biological closure of apical foramen of the tooth

*see also: GLUCO-CHEX 2% GEL

Handling the product HYDROCAL

Mix calcium hydroxide with chosen liquid on the glass plate until a creamy consistency is obtained.

As temporary filling used for indirect and direct pulp capping:

1. Prepare the cavity (Pic.1)
2. Apply product onto the bottom of cavity and fill the cavity with temporary or permanent filling (Pic.2)

As temporary root canal filling:

1. Prepare the canal mechanically by means of products for chemo-mechanical preparation (ENDO-SOLUTION, ENDO-PREP CREM, ENDO-PREP GEL), rinse copiously (CHLORAXID) and dry the canal (i.e. CANAL CLEAN) (Pic.3)
2. For root canal drying use ENDO-ASPIRATOR and paper points (Pic.4)
3. Fill the canal with HYDROCAL by means of Lentulo filler, remove excess of paste, close the cavity tightly (i.e. TOTAL BLEND) leave for about 30 days, after that period replace temporary filling (Pic.5)

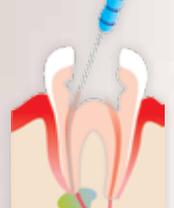
Pic.1



Pic.2



Pic.3



Pic.4



Pic.5



ZINC OXIDE

Material in powder for making dental fillings in paste

Available containers:
- container of 50 g

Active substance
zinc oxide

Available packages:
- container of 50 g

Active substance
zinc oxide



moisture absorber



CLASSIC FORMULA
bonding time 30 min.

moisture absorber



NEW FORMULA!
bonding time 1-7 min.

FAST SETTING PRODUCT

ZINC OXIDE is recommended for making pastes mainly with EUGENOL. It is used as a material for temporary fillings, material for lining the fissures, for temporary or permanent cementing, for root canal fillers or as a surgical cement.

Application

-  Material for temporary fillings: to close the cavity or devitalizing dressing
-  Material for temporary or permanent cementing
-  Temporary filling of the root canals
-  Surgical cement

Handling the product ZINC OXIDE + EUGENOL

An appropriate amount of ZINC OXIDE powder mix with EUGENOL on frosted side of the glass plate by means of metal spatula. Density and hardness is dependent on the amount of powder and liquid used for the mixture



CAUTION! ZINC OXIDE FAST time of mixing with eugenol 30-50 seconds, bonding time 1-7 minutes.

1. For temporary filling, mixture cannot stick to the glass container nor to the spatula.
2. For application in deep fissures the first dose of the paste should have creamy consistency and the next layer should be harder.
3. For cementing and filling of the root canals, the mixture has to be creamy.
4. As a surgical cement paste it must be dense to allow the manual manipulation. Material should be used after drying the cavity.

As a temporary filling of cavity:

1. Prepare the cavity (Pic.1)
2. On the bottom of cavity apply paste which should have a runny consistency (Pic.2)
3. Fill whole cavity with temporary paste of harder consistency (Pic.3).

Pic.1

Pic.2

Pic.3



EUGENOL

Liquid for making pastes

Available packages:

- bottle of 10 ml
- bottle of 20 ml

Active substance:

Eugenol oil 100%

EUGENOL is commonly used as a liquid for making pastes for root canal filling (Endomethasone, Caryosan), temporary filling of cavities or for pastes used for indirect pulp capping (Caryosan, ZINC OXIDE).

Pastes with eugenol shouldn't be used under composites since they may disturb the polymerization process.

Application

For making pastes used for:

- ▶ root canal fillings
- ▶ temporary cavity filling
- ▶ indirect pulp capping



For temporary root canal filling:

1. Prepare the canal mechanically using materials for chemo-mechanical preparation (ENDO-SOLUTION, ENDO-PREP CREAM), rinse copiously (CHLORAXID) and dry the canal (for example CANAL CLEAN) (Pic.4)
2. Fill up the canal with creamy paste by means of Lentulo filler, remove excess paste, close the cavity tightly, leave for about 30 days, after that period replace temporary filling (Pic.5)

Pic.4



Pic.5



EUCALYPTOL

Product for solving gutta-percha

Available packages

- bottle of 10 ml
- + set of application pipettes

Active substance:

eucalyptus oil 100%



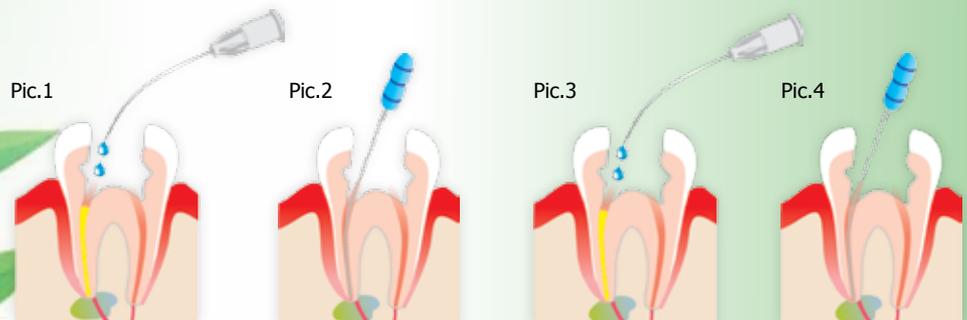
Properties

EUCALYPTOL is intended for solving gutta-percha. It is gained from eucalyptus extract. Colorless or yellow liquid with specific, pleasant cineol scent and spicy, cooling flavour.

Using **EUCALYPTOL** instead of any other gutta-percha solvent may decrease the risk of adverse effects.

Handling the product EUCALYPTOL

1. Insert 2-3 drops of the liquid into the root canal (Pic.1).
2. Remove gutta-percha (Pic.2).
3. If gutta-percha is still dry or fragile, use another dose of product (Pic.3).
4. Repeat this action as long as needed (Pic.4).



RED DETECTOR

Caries detector



The red dye contained in the product penetrates the tissues with caries and dyes it red.

RED DETECTOR makes the work much safer as it allows location of carious dentine and saves the healthy tissues.

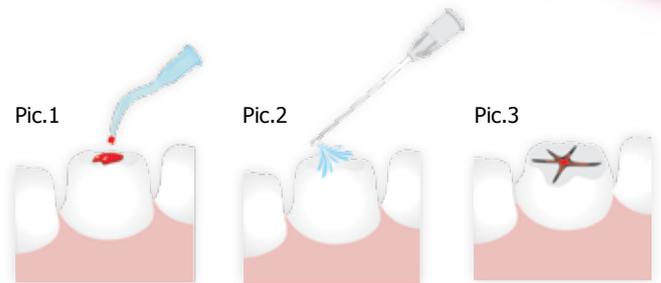
Available packages:
- syringe of 2 ml
+ set of applicators

Active substance:
rhodamine B 1%



Handling the product RED DETECTOR

1. After removing all visible carious lesions apply one drop of the product on the defect area, wait 5-10 seconds (Pic.1)
 2. Next irrigate and dry the defect (Pic.2)
 3. The areas which show up in red, indicate the carious dentine (Pic.3)
- After use of the product withdraw the syringe piston in order to prevent overflow of product, take off applicator and screw the white plug into the syringe.



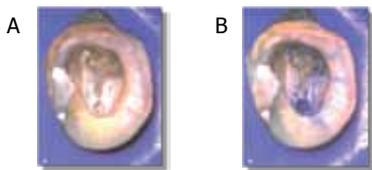
CANAL DETECTOR

Root canal orifices indicator

Blue dye contained in the product penetrates the root canal orifices and dyes them blue which makes it easier to find the main root canal and detect the cracks.

Available packages:
- syringe of 2 ml
+ set of applicators

Active substance:
Methylene blue 2%

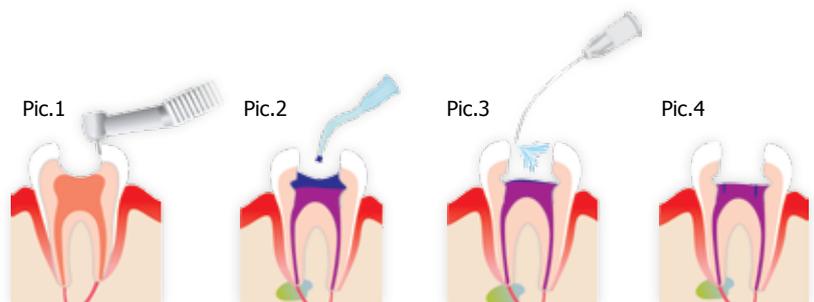


- Pic. A
Bottom of the pulp cavity 27 before CANAL DETECTOR application
- Pic. B
Bottom of the pulp cavity 27 after CANAL DETECTOR application. All root canal orifices are visible.



Handling the product CANAL DETECTOR

1. Remove dentine where the root canal orifices are expected (Pic.1)
 2. Insert 1-3 drops into the bottom of the pulp cavity, wait 5-10 seconds (Pic.2)
 3. Next rinse and dry the pulp cavity (Pic.3)
 4. The areas which show up in blue indicate the root canal orifices (Pic.4)
- After use pull back the plunger of the syringe to prevent overflow of product, remove applicator, close the syringe with white cap.



ALUSTAT

Liquid for staunching the bleeding

Available packages:

- bottle of 10 g with dropper

Active substance:

aluminium chloride 25%

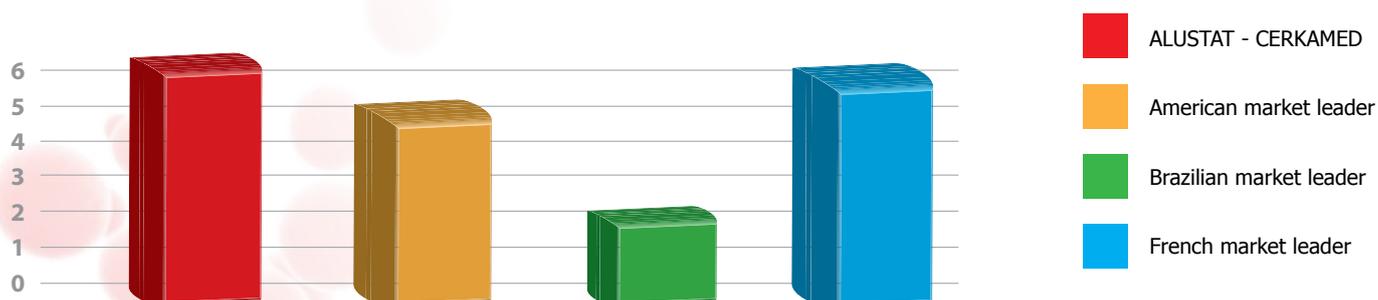
Application and properties

ALUSTAT is intended for use during dental treatment to decrease the local swelling and to staunch slight gingival bleedings during and after the dental treatment.

It has an astringent effect, it is antiphlogistic and vasoconstrictive.



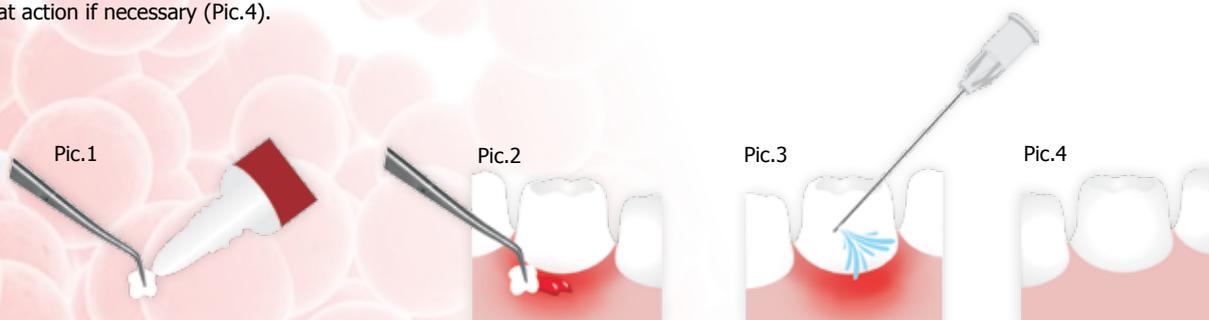
Comparison of popularity of hemostatic products among the dentist*



Research based on questionnaire survey among dentists during international dental fair KRAKDENT 2011

Handling the product ALUSTAT

1. Sop the cotton wool tampon with ALUSTAT (Pic.1)
2. Swollen or injured gingiva rub gently with cotton wool tampon with ALUSTAT (Pic. 2)
3. Rinse with clean water (Pic.3)
4. Repeat action if necessary (Pic.4).



ALUSTAT GEL

Gel for staunching bleeding

Available containers:

- syringe of 5 ml
- syringe of 10 ml
- + dispenser
- + connector
- + set of applicators

Active substance:

aluminium chloride 25%



Application and properties

ALUSTAT is intended for use during dental treatment to decrease the local swelling and to staunch slight gingival bleedings during and after the dental treatment. It has an astringent effect, it is antiphlogistic and vasoconstrictive.

System of product application

As one of the few worldwide producers we use a system (adapter) for pumping the product from a large refill syringe into the small one.

Implementation of the best quality three-element syringes of luer-lock type (with thread) guarantees safe pumping of product from one syringe into the other.

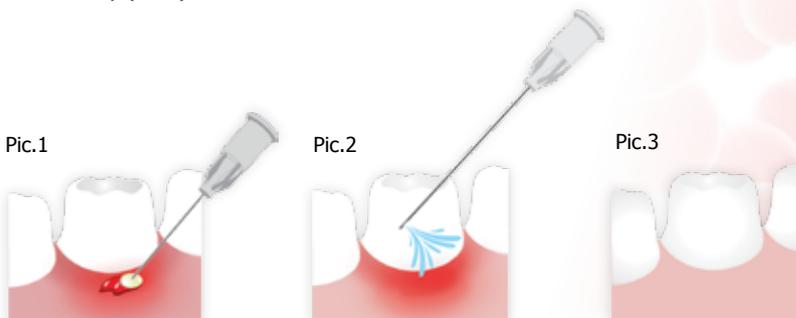
Usage of the luer-lock type syringes guarantees safe application - syringes are equipped with luer-lock thread that enables connection with needle by screwing it onto the syringe.

Luer-lock system is the best protection against accidental spillage of the product during application.



Handling the product ALUSTAT GEL

1. By means of applicator insert preparation on the swollen or injured gingiva (Pic.1)
2. After 30 seconds remove preparation with a sterile tampon or with a water stream (Pic.2)
3. Repeat action if necessary (Pic.3).



BLUE ETCH

Dental etching gel for dentine and enamel

Available packages:

- syringe of 2 ml
+ applicator
- syringe of 10 ml
+ dispenser
+ connector
+ set of applicators
- syringe of 50 ml
+ dispenser
+ connector
+ set of applicators

Active substance:

36% o-phosphoric acid



Product is used for increasing adhesion of chemical and light-cured fillings as well as orthodontic appliances. It is used prior to composites, fissure and cavity seals. Reaction between o-phosphoric acid and mineral components of the tooth is resulting in increased adhesion and the enamel acquires a mat texture.

Product is considered by the dentists and orthodontists to be the best Polish etching gel, it is the winner of many awards and prizes on different exhibitions and dental fairs.

Properties

- ➡ Perfect gel consistency and thixotropic properties (gel becomes fluid when agitated and coagulates just after application)
- ➡ Does not flow from the surface or from narrow edges of enamel
- ➡ Does not clog the applicator and doesn't dry out in it (even up to 48 hours after last usage)
- ➡ Very good adhesion to enamel
- ➡ Easy removal upon rinsing
- ➡ Blue colour enables control during application and etching

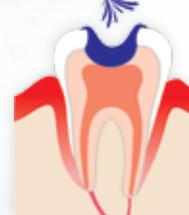
Handling the product BLUE ETCH

1. Prepare the cavity (Pic.1)
2. Apply thin layer of etching gel on the dried surface of enamel and dentine, the etching procedure should not be longer than 60 sec (Pic.2)
3. Rinse with strong air-flow and water, do not make it too dry (Pic.3)

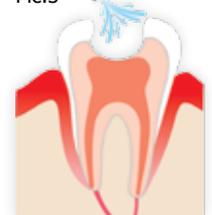
Pic.1



Pic.2



Pic.3



Pumping system



COMFORT AND SAFE pumping system

As one of the few world manufacturers we use a system (adapter) for pumping the product from a large refill syringe into a small one. It enables the best use of thixotropic properties of etching gel in 100% of cases.

Implementation of the best quality three-element syringes of luer-lock type (with thread) guarantees safe pumping of the product from one syringe to another.

Usage of the luer-lock type syringes guarantees safe application - syringes are equipped with luer-lock thread that enables the connection of the needle by screwing it onto the syringe.

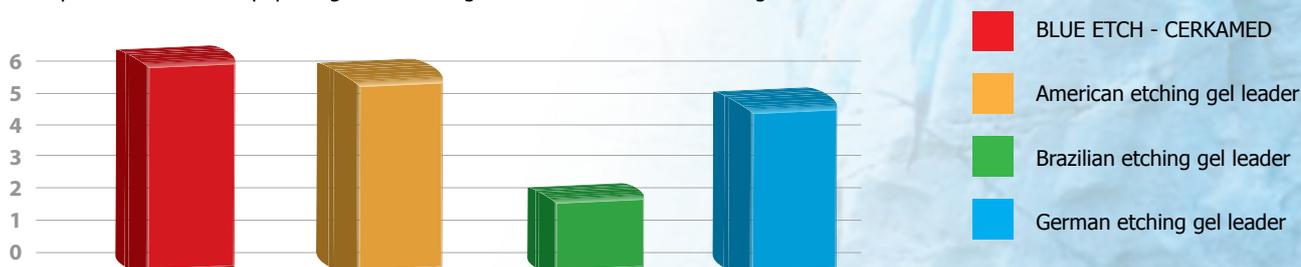
Luer-lock system is the best protection against accidental spillage during application.

BLUE ETCH 50 ml



Set contains refill syringe of 50 ml with adapter and application syringe.
This option is dedicated to the customers using large quantities of the product.

Comparison of the most popular gels for etching of enamel and dentine among dentists*



Research based on questionnaire survey among dentists during international dental fair CEDE 2011

GLUCOSITE, GLUCOSITE GEL

Liquid and gel for gingival pockets

**New line of products
for gingival pockets**

Available packages:

- syringe of 2 ml
+ set of applicators
- bottle of 50 ml
+ dispenser
+ adapter

Active substances :

- chlorhexidine digluconate 0,2%,
- hydrogen peroxide 3%

- ✓ enhanced formula
- ✓ new packaging
- ✓ new, economic capacity of 50 ml
- ✓ ergonomic luer-lock syringe



*see also: GLUCO-CHEX 2%, GLUCO-CHEX 2% GEL

Application

GLUCOSITE and GLUCOSITE GEL is intended for rinsing the gingival pockets and other areas of mucosa membrane which are difficult to be reached for decontamination, in order to prevent inflammation caused by residues of food.

GLUCOSITE GEL for application to the gingival pockets. Its application is very easy and it doesn't flow from the gingiva, it rinsing and cleans the area of the mucosa membrane thoroughly.

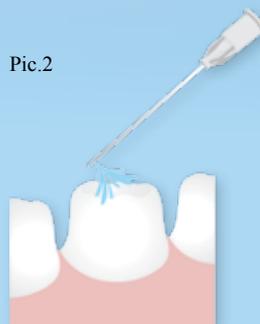
Handling the product GLUCOSITE, GLUCOSITE GEL

1. By means of attached applicator insert the liquid into the gingival pocket, apply product into the gingival pocket by shifting applicator along the gingiva's line. (Pic.1)
2. When application is finished, please recommend to the patient to rinse their mouth with clean water. (Pic.2)

Pic.1



Pic.2





1st award at the dental fair in Kiev

PROTECT LIGHT SEAL

Dentine protective enamel

Available packages:

- bottle of 5 ml
- + set of brush applicators

Active substance:

HEMA 50%, potassium fluoride 1%

PROTECT LIGHT SEAL is a varnish recommended for treating hypersensitive dentine. Fluorite contained in the product improves remineralization and reinforces the resistance of enamel to an acid environment which stops the caries. It contains mineral nano-filler which penetrates and reinforces the dentine, protecting it from cervical erosion. Product does not require light curing. It has a desensitizing effect on the dentine. It does not leave a film on the tooth surface and gives instant relief. The patient can eat and drink immediately after the application.



Application

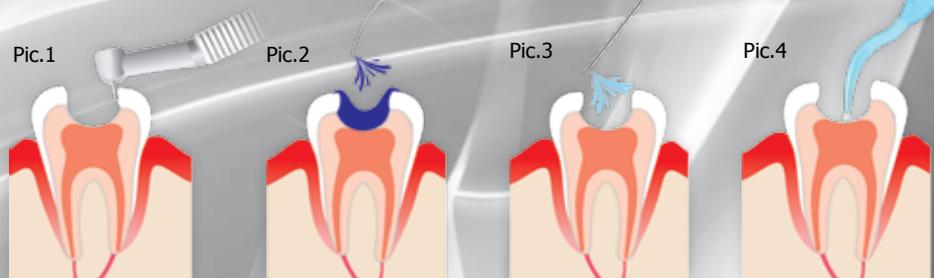
-  Treatment and prevention of the dentine's hypersensitivity
-  Foundation for cementing or rebuilding of the bone tissue
-  Post-treatment hypersensitivity
-  Prior to impression (for patients sensitive to cold)
-  After tartar removal
-  Can be used prior to application of restorative materials

Handling the product PROTECT LIGHT SEAL

Post-treatment pain reduction

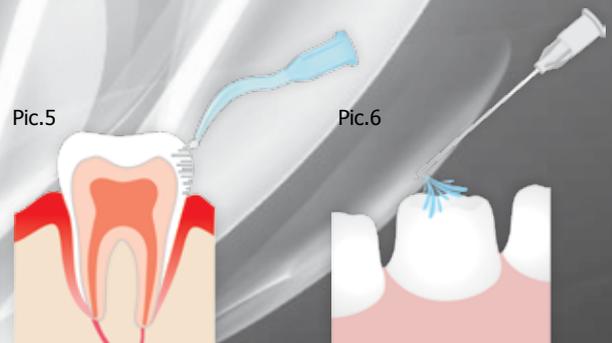
1. Treat the defect (Pic.1)
2. Etch with BLUE ETCH (Pic.2)
3. Rinse the prepared surface, dry carefully, avoid dentine dehydration (Pic.3)
4. Apply layer of PROTECT LIGHT SEAL (only on the dentine), wait for no longer than 30 seconds and dry (Pic.4)

On the treated defect put bond and filling as recommended by manufacturer



Cervical hypersensitivity reduction

1. Apply the varnish on the clean and dry tooth surface and wait for about 30 seconds (Pic.5)
 2. Rinse it (Pic.6)
- If needed, repeat the procedure.



YELLOW PORCELAIN ETCH

Porcelain etch

Available packages:

- syringe of 2 ml
- + set of applicators

Active substance:

hydrofluoric acid 9,5%



* available separately or as a set

SILAN

Silane methacrylate

Available packages:

- syringe of 2 ml
- + set of applicators

Active substance:

silane methacrylate 100%



* available separately or as a set

Handling the products YELLOW PORCELAIN ETCH + SILAN

1. Isolate the operation field with rubber-dam, apply small amount of etching product on the prepared and dried surface. After use close the syringe with a safety plug (Pic.1).
2. Leave etching for 60 seconds (Pic.2).
3. Rinse and dry the treated area precisely (Pic.3).
4. Embrocate silane into previously etched porcelain surface (Pic.4)

Do not rinse! Dry with airflow.
Porcelain surface is ready for bonding.

Pic.1



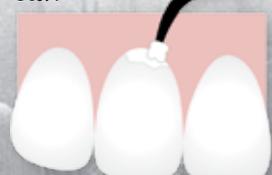
Pic.2



Pic.3



Pic.4



YELLOW PORCELAIN ETCH + SILAN

Set for etching the porcelain

Available packages:

- syringe of 2 ml + syringe of 2 ml
+ set of applicators

Active substance:

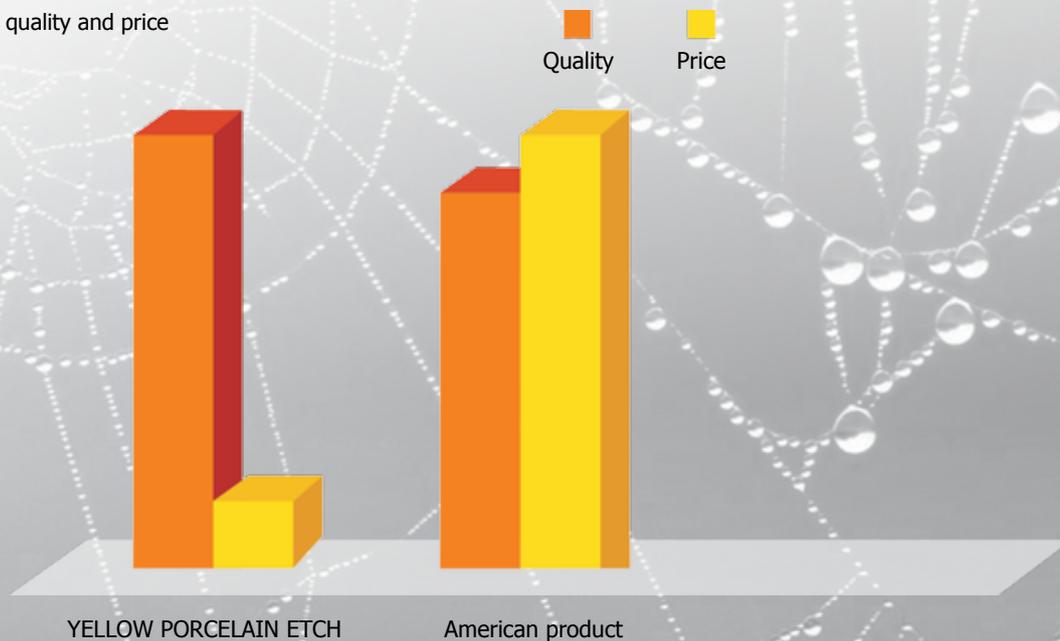
hydrofluoric acid 9,5%
silane methacrylate 100%



YELLOW PORCELAIN ETCH (hydrofluoric acid in gel) and SILANE allows repair of the dentures in the dental surgery, while in the patient's mouth. The etch is used for porcelain etching during repair of the dentures in the patient's mouth, as well as for the etching of the porcelain veneers, crowns or inlays before their cementation.

SILANE is applied on porcelain after etching, before bonding in order to increase durability of the bond between resin and porcelain. Both products are packaged in handy syringes with suitable brush applicators. Dense, gel and yellow etch contains fluoric acid, buffered in such a way that there are no noxious vapours (usually this happens in the case of etches used by technicians). Due to this porcelain can be etched in the mouth of the patient. Where using it in the patient's mouth, it is recommended to protect the soft tissues.

Balance between quality and price



FLEXIBLE APPLICATORS



The best solution!



Application

Cerkamed applicators have a wide range of application in dentistry. Selection of appropriately sized diameter having right angle bend and its flexibility allow the correct application of products in the patient's mouth.

The applicators may be used for applying products with a wide range of consistency and density. It is a perfect solution as an ENDO-ASPIRATOR canal ending.

Applicators are recommended to be used with luer-lock syringes.

ADDITIONAL ACCESSORIES

METAL APPLICATORS



Needle applicators are used for application of many types of gels including all types of dental etching and endodontic products. A diameter of 0,9 mm allows easy and safe work with the majority of products. The blunt end and right angle bend allow the correct application of the products to be used.

BRUSH APPLICATORS



The applicators ending with a brush allow safe and easy application of products. Micro-brush and the right shape enable ergonomic and safe work.

CAPS FOR LOCK AND LUER-LOCK SYRINGES



Our plugs match the majority of syringe threads that are available on the market. These plugs can be used both for syringes with lock (without the protective collar) and luer-lock type. Plugs that we offer are equipped with special wings that make opening and closing of syringes very easy and convenient. Ease of use and a very attractive appearance are the features to be expected in the best products of this kind.

FLEXIBLE APPLICATORS WITH SCALE



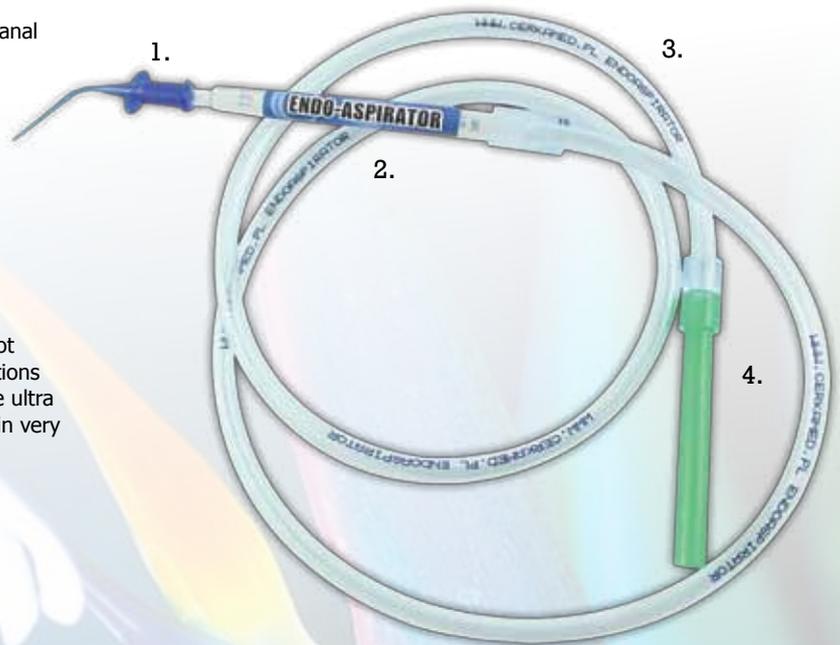
Endodontic applicators for applying pastes, creams and other endodontic products. Flexibility and the right angle bend allow the correct application of products.

ENDO-ASPIRATOR

Endo- Aspirator for removal of liquids from the root canal by aspirating

- ➔ It facilitates drainage of the root canal
- ➔ Reduces working time (even 10 times)
- ➔ Reduces consumption of paper points (up to 80%)
- ➔ Soft applicator with a small diameter ensures good penetration and accurate drying of the root canal

1. applicator
2. grip
3. hose
4. connector



Application

ENDO-ASPIRATOR is used during rinsing and drying of root canals in order to remove (aspirate) all the irrigation solutions that have been used for root canals rinsing. Thanks to the ultra fine application tip – 0,29 mm it is possible to work even in very fine root canals.



Instruction for use

Connection to the suction device

ENDO-ASPIRATOR should be connected to the suction device (saliva ejector, aspirator). Then turn on the suction device and insert the applicator directly into the root canal. Treatment should be repeated after each application of the irrigation solution used in the root canal.

ENDO-ASPIRATOR is for single use only. Waste products should be forwarded for recycling.



Halina Pawlicka M.D., PhD, D.Sc

ENDO-ASPIRATOR is an easy, disposable medical device, which after connecting to the suction-device is used for drying root canals during endodontic treatment. A flexible tip applied directly into a root canal makes it easy to remove the irrigation solutions from the tooth cavity. Both working time and paper points are reduced to the minimum. Thanks to the suction power of the suction device, the broken part of a dental tool may be aspirated by the tip of ENDO-ASPIRATOR. In my opinion that medical device makes the difficult endodontic treatment easier and faster.

Halina Pawlicka

BEST-CORD NANO

Polyester polyamide retraction cord impregnated with aluminium chloride

NEW!

Retraction cord BEST CORD NANO is impregnated with aluminium chloride which works constrictively, hemostatically and doesn't discolour the teeth.

Precise cut – cutting system



Handy scale

Durable weave

4 SIZES:

00, 0, 1, 2

203 cm of cord per pack



Electron microscope images (x500)

Pic.1



Pic.2



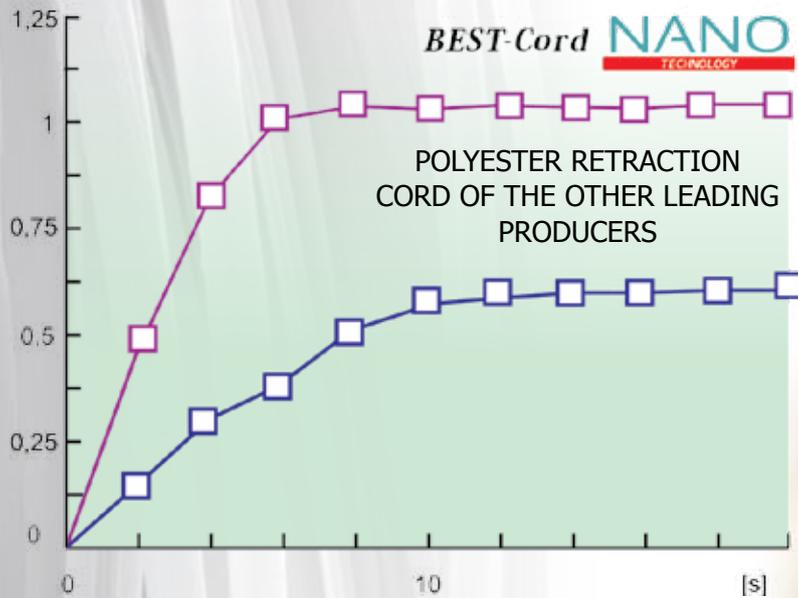
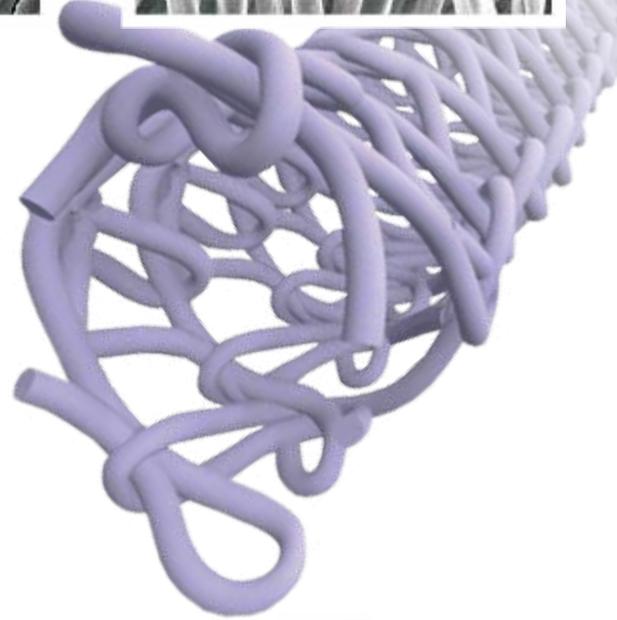
Pic.3



Pic. 1. Nano-fibres in the cord BEST CORD NANO. Visible, uniform and shipshape structure of thin fibres which extend absorption surface.

Pic. 2. Photo enlargement of the market leading cotton cord (competitor). Visible, jagged and disordered structure of the cord.

Pic. 3. Photo enlargement. The market leading polyester cord. Visible, thick fibres with small absorption surface.



Laboratory testing conducted on the cord samples of length 5 cm illustrating liquid absorption after 20 seconds.

Application

1. For staunching the bleeding and gingiva retraction in the case of tooth product for dental crowns and bridges.
2. To protect the gingiva in process of teeth polishing – the cord doesn't get caught into the dental bur.
3. In pulpotomy procedure.
4. In all procedures of restorative dentistry when control of body fluid penetration inside the tooth cavity is required.



PROTECTIVE VISORS

- COMFORT,
- COMFORT LIGHT,
- VISORS for corrective glasses

Our protective visors COMFORT and COMFORT LIGHT ensure comfortable and hygienic work for dentists and dental technicians. They prevent infections transferred by air and enable protection against swarf materials. Comfortable and elastic frame (available in different colours) ensures wide visual area, doesn't cramp any movements.

That frame was designed in such a way that people wearing corrective glasses can use it. This feature not found in any other type of protective mask on the market!!!



1



2

Available different colours:

- Blue
- Pink
- White
- Beige
- Transparent



Advantages

- ✔ Perfect protection and comfortable to wear during work
- ✔ Modern design
- ✔ Many colours available
- ✔ Highest foil transparency parameter – 99,75%
- ✔ High flexibility and high break-resistance
- ✔ Ergonomic shape and easily adjustable frame adapting easily to the face
- ✔ Low weight
- ✔ Fast and easy replacement of the foils



3

Available options:

1. COMFORT VISORS – compression free frame with metal clips + set of replacement foils (5 thin foils: STANDARD or 4 thick foils: RELAX).
2. COMFORT LIGHT VISORS – compression free frame with special plastic clips + set of replacement foils (4 thick foils RELAX LIGHT)
3. VISORS for corrective glasses - set of foils with clips attached which are the taps for the glasses.

The only one on dental market!

DENTAL FIRST AID KID

FIRST AID KID by CERKAMED are configured after consultation with emergency medicine specialists, with the dental surgery specifically in mind. Because of this you are assured that the kits have been designed to give first aid as soon as possible when a critical situation arises. The First Aid Kit has been made using best quality materials that have a long life of many years and avoid additional costs.

FIRST AID KITS BY CERKAMED in three configurations:

BASIC FIRST AID KIT is the obligatory rescue equipment which should be in every dental office.



LUX FIRST AID KIT is a complex set enabling successful and fast rescue. It contains a 2 litre oxygen cylinder equipped with a reducing valve and fittings necessary for implementing successful oxygen therapy.



OXYGEN FIRST AID KIT is a complex set containing a 2 liters oxygen cylinder equipped with a reducing valve and necessary fittings for implementing successful oxygen therapy.



ISOPROPYL ALCOHOL

2-Propanol pure p.a.

Available packages:

- bottle of 200 g
- + adapter
- + labelled dispenser

ISOPROPYL ALCOHOL is gentle and organic dissolving agent, it could be used as an antiseptic liquid and for cleaning surfaces, it has degreasing and disinfection properties.



IODOFORM

Iodoform pure p.a.

Available packages:

- container of 30 g

IODOFORM long-lasting anti-bacterial, it acts slightly anesthetic, dries exudates, acts hemostatic, does not irritate the periapical tissues.

IODOFORM it self does not have antiseptic properties, only in contact with tissues, especially with serous or purulent secretion, it slowly decomposes emitting free iodine.



METHYLENE CHLORIDE

Dichloromethane pure p.a.

Available packages:

- bottle of 10 ml
- + application tweezer

METHYLENE CHLORIDE (dichloromethane) is an organic dissolvent. It's much better than chloroform because of the following advantages:

- it is less harmful
- it has less penetrating odor
- much easier to be removed from the root canal
- less susceptibility to degradation by light

The only one on dental market!

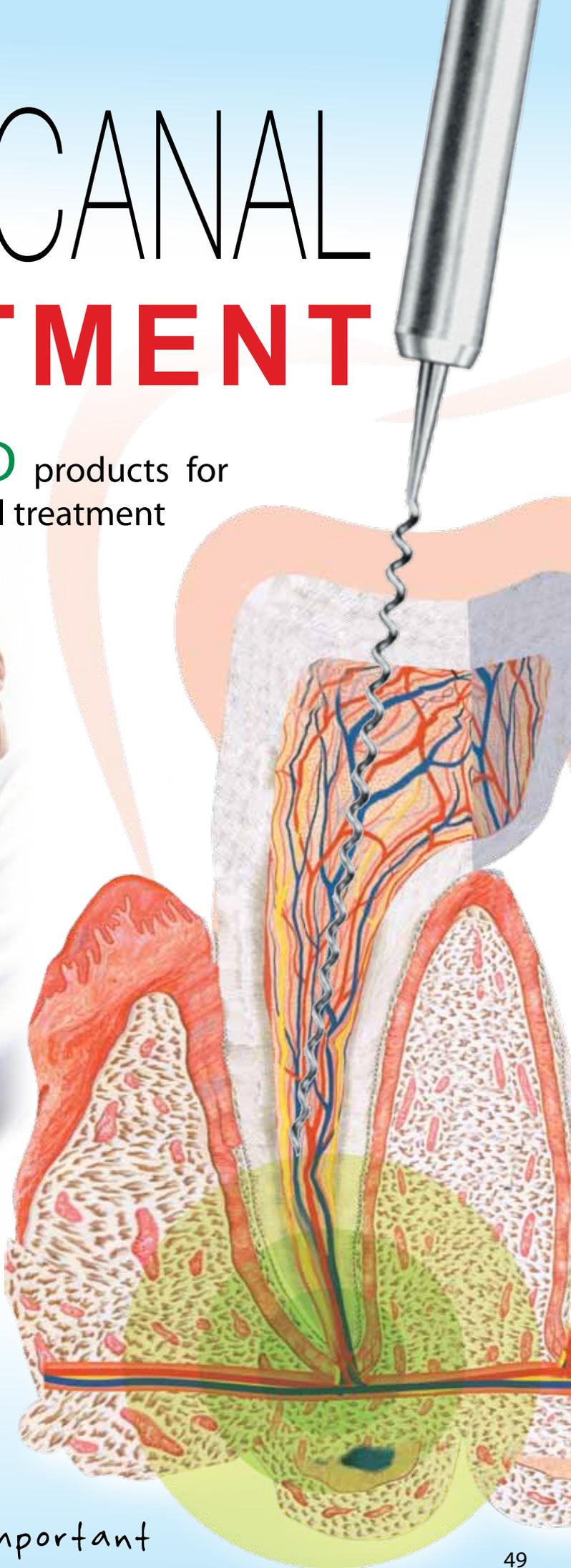


During METHYLENE CHLORIDE application appropriate precautions should be taken. Protect air passages, eyes and skin, do not swallow!

Effective

ROOT CANAL TREATMENT

Use of **CERKAMED** products for comprehensive root canal treatment

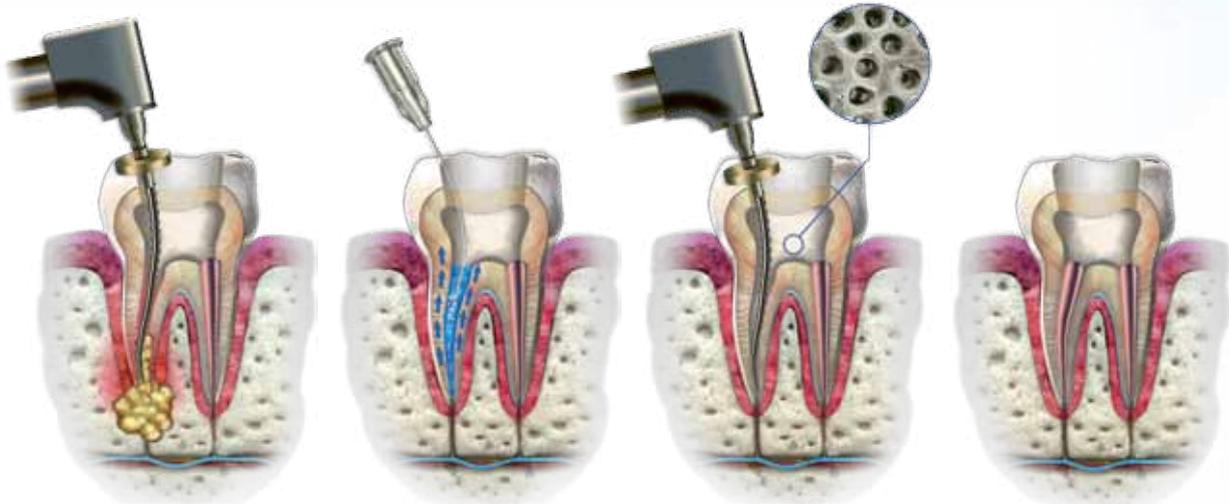


... because details are all-important

Effective root canal treatment

how to use well the best new products for root canal preparation and treatment.

Although there are many verified endodontic methods and techniques, none of these methods is recognized to be the best. Nevertheless the hereunder rules are the existing procedures applied for root canal preparation:

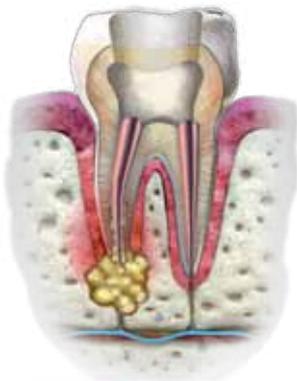


1. Precise drainage and widening of the root canal

2. Copious rinsing with antibacterial products

3. Removal of the smear layer and revealing the dentinal tubuli orifices

4. Hermetic root canal filling



The above procedures are achieved by the use of appropriate dental products which improve the treatment most effectively.

Failures in endodontic treatment are mostly caused by the bacteria left in the root canal, due to inaccurate cleansing and filling.

The latest scientific studies shows that the use of dental tools and physiological saline allows to remove bacteria only in 50% of cases. Usage of the irrigants like NaOCl and CHX increases the result to 80%. Antibacterial properties of the irrigants might increase after application of substances removing the smear layer from the walls of the root canal (EDTA, citric acid). Precise cleansing of root canals and removing the germs enable hermetic root canal filling and also ensure full success in root canal treatment.



Single visit root canal treatment

Nowadays, many authors recommend single visit root canal treatment. It is a perfect solution provided that the doctor has as much time as required and arisen inflammatory do not cause exudation from the root canal. Main stage of the treatment is accurate preparation and rinsing of the root canal.

1. The treated tooth should be isolated from the oral cavity by rubber dam. The tooth cavity should be opened by means of any dental bur that would allow to gain access to the root canals. Content of the cavity must be removed by means of any sterile bur and dental excavator.



2. After removing dead or inflamed pulp tissues from the tooth cavity, it is required to rinse it with solution of sodium hypochlorites - **CHLORAXID**.



In case of endodontic re-treatment when root canals were filled with gutta-percha, it is necessary to remove it by means of the product called **EUCALYPTOL**. It is natural Eucalyptus oil which improve the efficiency of gutta-percha removal.

It is sufficient to insert a few drops of oil into the root canal and remove gutta-percha that becomes soft and easy for removing.

3. Next the tooth chamber should be filled with the product for root canal drainage like **ENDO-PREP GEL**, **ENDO-PREP CREAM** or **ENDO-SOLUTION**.

Insert carefully preparation into the canal by means of attached applicator (or any dental tool). The first tool shouldn't be introduced deeper than half the canal's length.

CERKAMED products used for drainage of the root canals contain EDTA which main function is softening the tissue through chelating process of calcium ions. These products are available in gel - **ENDO-PREP GEL**, in cream with urea peroxide - **ENDO-PREP CREAM** and in liquid - **ENDO-SOLUTION**. All of them are interchangeable.

ENDO-PREP in gel apart from its active substance (EDTA) contains lubricants enabling easy introduction of the dental tool into the canal and preventing its breakage. Its appropriately selected consistency guarantees that preparation doesn't flow from dental instrument.

ENDO-PREP CREAM contains additionally urea peroxide which together with NaOCl makes the bubbling effect and the self-cleaning of the root canal.

ENDO-SOLUTION in liquid form is characterized by very good penetration and fast reaction time on the tissues. This product enriched by surfactants (**ENDO-SOLUTION PREMIUM**) helps in removing the smear layer with its contaminants from dentinal tubules even of the smallest diameter. Surfactants, content of this product, enables easier penetration of the liquid into the narrow fissures of small tubules.

4. After initial drainage of the root canal it is required to rinse the canal once again with **CHLORAXID** in order to remove debris of tissue outside.

Actions of canal drainage and rinsing should be repeated a few times considering not to reach root apex of the tooth (the possibility of pushing the content of the canal through the tooth apex and infecting the periapical tissues is reduced).

ENDO PREP GEL (or **ENDO-SOLUTION**) is recommended to be used with the first two or three sizes of dental tools, then preparation of the root canal should be carried out without EDTA. These products should not be left in the canal because it could lead to its excessive softening.

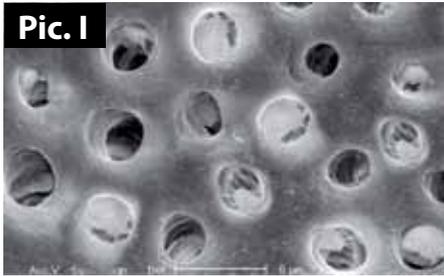
5. At this stage mechanical widening of the canal should be complemented by its copious rinsing. For such purpose, it is recommended to use antibacterial products **CHLORAXID** and **GLUCO-CHEX 2%**. Each root canal should be rinsed copiously and simultaneously with physiological saline. Product **GLUCO-CHEX 2%** contains **chlorhexidine gluconate**, which is highly efficient against bacterial strain immune to NaOCl. That is why these two products should be used as complementary in the process of root canal rinsing.



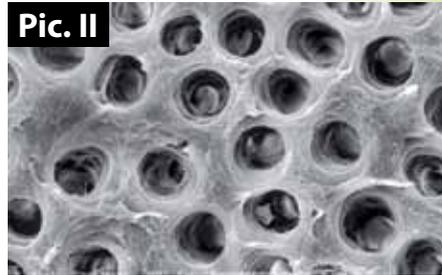
While rinsing root canals, it is compulsory to remember to rinse physiological saline between rinsing with these two solutions to avoid mixing them in root canal because it may cause precipitating a tawny deposit which is difficult for removal.

Product **GLUCO-CHEX 2% GEL** thanks to its creamy consistency is simply for application to the canal and easy for rinsing out. Lubricants contained in the product simplifies introduction of the tool into the canal.

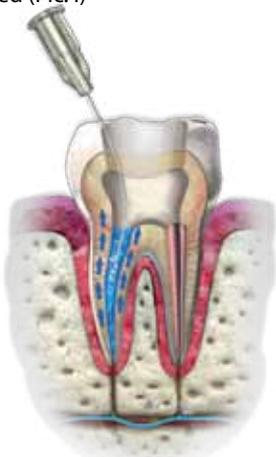
6. For removal of the smear layer and revealing the dentinal tubuli orifices in process of rinsing the root canal, it is recommended to use **Citric Acid 40%**. This product with concentration of 30-40% removes successfully smear layer remains.



Wall of the canal after applying EDTA 15%, some of the dentinal tubuli orifices stay still closed (Pic. I)



Walls of the canal after removing the smear layer when Citric Acid 40% applied (fot. II). All the dentine tubuli orifices are open and smear layer is completely removed.



7. In the last stage of root canal preparation it is recommended to rinse the canal with **sodium hypochlorite (CHLORAXiD) at concentration from 2% to 5,25% and chlorhexidine (GLUCO-CHEX) concentration of 2%** in alternate use with physiological saline in order to remove bacterial flora from dentine tubules. Root canal preparation should be finished by its rinsing with the product **CANAL CLEAN**. Its short evaporation time accelerates drying the root canal. However, the canal can also be dried by means of paper points.



The root canal treated this way can be now precisely and hermetically filled. By this, efficiency of the treatment is increased, and the risk of complications is minimized. Successful root canal treatment can be achieved by removing most of bacteria contained in smear layer and fill dentine tubules.



Two-visit root canal treatment

There are situations when it is impossible to finish the treatment during the first visit e.g. lack of time or persistent root canal exudates.

1. The first appointment is focused on precise preparation of the root canals – when single visit root canal treatment procedure applied (points 1-7) - and applying the antibacterial product such as: **CALCIPAST** - ready for use, non-hardening calcium hydroxide paste, or **CALCIPAST-I** - with iodoform which makes the drying and bactericidal effect much stronger in case of exudates in the root canal.

The very new product on the market is **CALCIPAST FORTE**, which, apart from iodoform, contains chlorophenol that is even more effective in drying and disinfection the root canal.

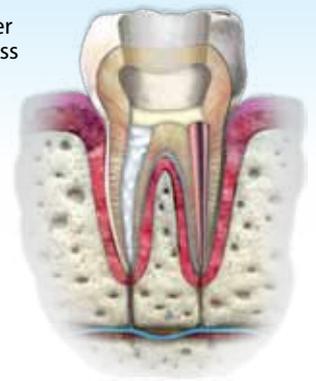


After applying the product to the canal it is recommended to close securely the tooth cavity using temporary filler Cerkamed **TOTAL BLEND** – light-cured material based on calcium hydroxide. This hermetic filler, closing the access to the tooth cavity, protects the canal from any contamination between the visits.



TOTAL BLEND is available in enamel shade - **WHITE** and dentine shade - **DENTINA**, which makes it possible to obtain proper cosmetic results.

2. The second appointment is used for final filling. Removal of calcium hydroxide **CALCIPAST** pastes does not cause any problem due to their non-hardening formula. It is recommended to rinse out the paste **CALCIPAST+I** and **CALCIPAST FORTE** with the product **CANAL CLEAN**, which dissolves iodoform in the root canal.



CANAL CLEAN used as the last stage of rinsing the root canals accelerates drying of the root canal before its final filling.

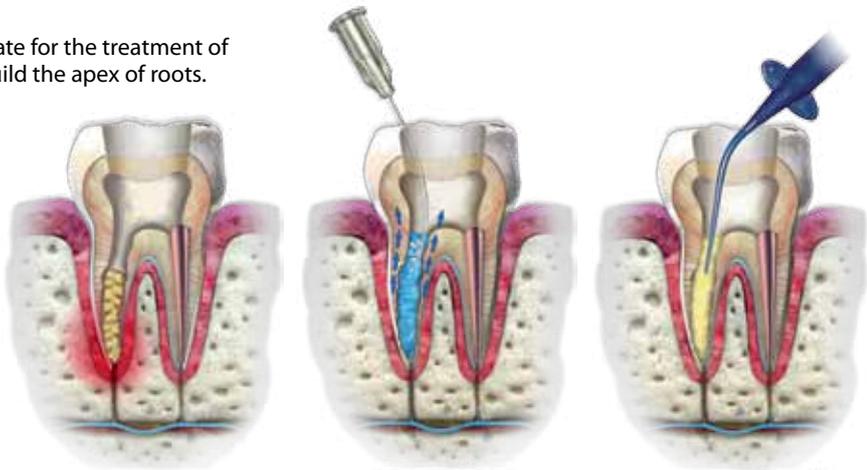
The novelty is the product **TOTAL BLEND BLUE** blue shadow, containing calcium hydroxide. Thanks to its blue shadow, it is possible to locate precisely orifices of the closed canals during next appointment.



Multi-stage treatment

Multi-stage root canal therapy is appropriate for the treatment of pathologic resorption and in order to rebuild the apex of roots.

In case of resorption it is recommended to rinse infected root canals with **GLUCO-CHEX 2%** in liquid or in gel. Chlorhexidine gluconate contained in this product is highly efficient against bacteria *Enterococcus faecalis* which may cause the abscesses. Next, it is recommended to fill the system of root canals with temporary fillings (for maximum 1 month), these are **CALCIPAST+I** or **CALCIPAST FORTE** which both have anti-bacterial and drying effect on the root canal.



When the root apex area is damaged it is recommended to fill the canal with calcium hydroxide paste **CALCIPAST** (for maximum 1-2 months, if necessary repeat the treatment) which has strong odontotropic effect in stimulating and rebuilding the damaged periapical tissues.

Besides this bactericidal activity **CALCIPAST** paste gives reinforced contrast in x-rays which makes it possible to observe the evolution of tissues over time.



It is not difficult to remove calcium hydroxide paste **CALCIPAST** from the canal because of its non-hardening formula. It is recommended to rinse it out with the product **CANAL CLEAN**, which is very effective in dissolving and removing preparations which contain iodoform.



Available soon! SYNTEX

Root canal sealing material

SYNTEX is a product intended for root canal sealing of the permanent teeth by means of gutta-percha points. Material can be used for all techniques of the root canal sealing. It is very good for thermic methods. Sealing paste SYNTEX occurs in two manual mix syringes, dispensing two pastes in the proportion 1:1.



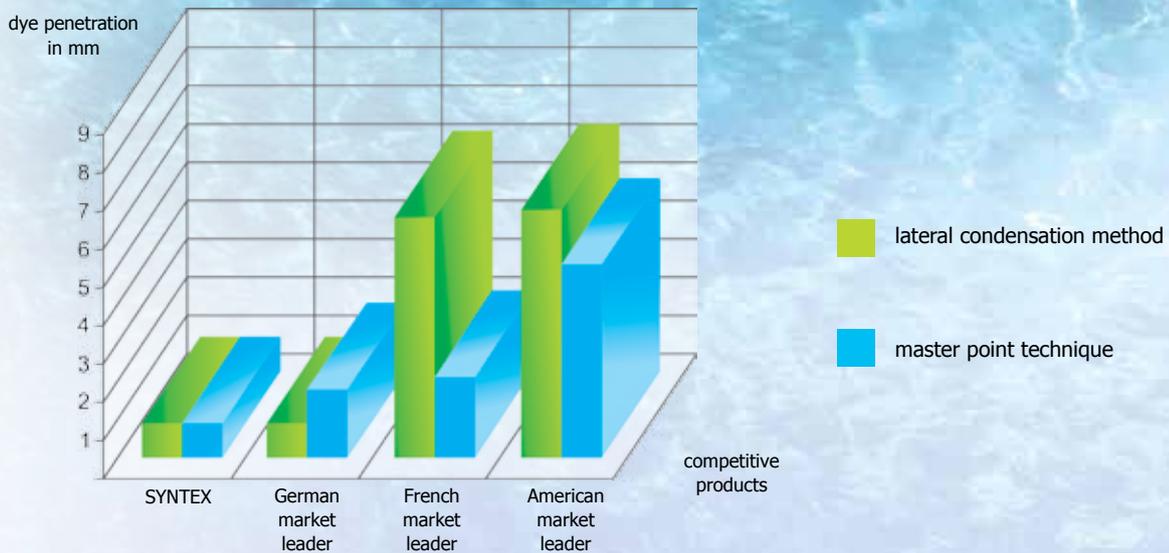
Properties

- ✔ Chemical-cured hermetic filling of lateral fissures and free spaces in the root canal
- ✔ Thermoplastic material that is highly stable (i.e. in terms of expansion or contraction rigidity or elasticity).
- ✔ It seals the root canal tightly, penetrates lateral canals and dental tubules and has a strong antiseptic effect

Product equipped with a mixing tip



Comparison of tightness with some of the products





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