



BETA RCS

Root Canal Treatment Sealer



Product of Beta Dent Knowledge
Enterprise Company



BETA DENT

Beta Dent Company

Beta Dent knowledge enterprise company has started its activity since 1382 in the field of dental materials production and is equipped with research and development department.

The aim of this group is to set up a dental materials production line, where the technical knowledge of a part of the products has resulted in the form of internal research projects and also another part of dental materials has been produced in the form of participation under the license of reputable foreign companies.

The experts of this unit in the research and development department are among the top and experienced researchers in the field of dental polymer and biomaterials who conduct extensive studies and research to know the structure and components of dental materials and enter the obtained technical knowledge into the industrialization and production phase.

The product that will be supplied in terms of chemical, mechanical and biocompatibility properties should be produced according to the latest international standards and methods and should be ideal compared to well-known and reputable brands and able to meet the dentist's expectations for successful treatment.

Beta Dent Company's Products:

- Composite and polymer artificial teeth
- All kinds of acrylate polymers for making prosthesis and artificial gum reline
- Root canal treatment sealer
- Dental light cure composite and bonding
- Light cure glass ionomer
- Silicone impression paste
- Temporary crown making materials
- Important and valuable projects that are in the process of getting a production license and transition to the production phase.

BETA RCS

Root Canal Treatment Sealer

Beta-RCS Sealer

Beta RCS sealer is a type of non-acrylic and eugenol-free resin sealer for root canal treatment, which has two components, powder and liquid, which has all the criteria of ISO 6876, and hardens after mixing the powder and liquid with the polymerization process.

This sealer with gutta percha can be used in all canal treatment methods. Beta RCS sealer has a tube containing 10 grams of resin and 8 grams of polymerizing agent powder, which is mixed at ratio of 1 gram of resin to 0.8 gram of curing agent powder.



Ingredients:

Beta RCS sealer is based on chemical resin, the resin used in it is epoxy resin based on bisphenol A and its polymerization agent is based on amine.

The desirable features of this type of sealer are good adhesion, good fluidity and flow, antimicrobial property, long time for implementation, ease of mixing and their excellent sealing ability.

Physical and chemical properties:

Row	property	Standard range according to ISO 6876	The results of the tests performed in the Endo department of the dentistry faculty, Tehran university.
1	Film thickness μ	Less than 50	43
2	Fluidity mm	More than 17	23
3	Dissolvability %	Less than 3	0/6
4	Working time hr	About 4 hours	4
5	Irradiance mm	More than 3	21

This product has been tested in terms of chemical properties with the latest methods and international standards in the Polymer and Petrochemical Research Institute as well as the Dental Materials Laboratory of faculty of dentistry, Tehran University of medical science.

Beta RCS sealer approved by the endodontics department of Tehran faculty of dentistry



<p>تاریخ: ۱۴۰۱/۰۱/۲۷ شماره: پیوسته دارد ساعت:</p> <p>بسمه تعالی</p> <p>دانشگاه علوم پزشکی تهران رئیس هیأت مدیره رئیس هیأت مدیره</p> <p>جناب آقای صفر زاده مدیر عامل محترم شرکت بتادنت</p> <p>با سلام</p> <p>احتراماً پیرو قرارداد انجام شده بین شرکت بتادنت و گروه اندودانتیکس دانشکده دندانپزشکی تهران مورخ ۱۴۰۰/۰۲/۰۲ در خصوص ارزیابی سیلر بتا (Beta Root Canal Sealer) به لات نامبر Sp990011 با کاربری در درمان ریشه دندان ، به استحضار می رساند مقامات در قالب طرح پژوهشی منصوب به شماره ۵۲۶۹ ثبت در سامانه پژوهشیار دانشکده دندانپزشکی دانشگاه علوم پزشکی تهران " در زمینه های بررسی خواص فیزیکی ، سمیت سلولی و خواص ضد میکروبی انجام گردید . بر اساس استانداردهای موجود سیلر RCS-β از نظر خصوصیات فوق الذکر ، مورد تأیید است . جزئیات در سه بخش ، ارائه گردیده است .</p> <p>دکتر سید علی رئیس هیأت مدیره اندودانتیکس</p> <p>#qrcode#</p> <p>تهران شهری، خیابان کارگر شمالی، نرسیده به بزرگراه شهید محب، دانشکده دندانپزشکی، کد پستی: ۱۳۳۱۵۵۱۱۱، صندوق پستی: ۱۳۳۱۵-۲۳۳۱، مرکز تلفن: ۳۳۹۴۰۰۰۰ تلفن: ۸۰۱۵۵۰۰ پست الکترونیک: dentistry@tums.ac.ir سایت شرکت: dentistry.tums.ac.ir</p>	<p>شماره پرونده: A155۲۳۲۷ تاریخ صدور: ۱۳۹۹/۰۲/۱۴ تاریخ آخرین تغییر: ۱۴۰۲/۰۲/۲۵ تاریخ اعتبار: ۱۴۰۲/۰۲/۲۵ پوست: ندارد</p> <p>پروانه تولید وسیله پزشکی (یک ساله)</p> <p>تولید کننده: بتا دندان ماکو شناسه ملی: ۱۰۱۰۲۵۸۱۶۲۴ نشانی: استان آذربایجان غربی - ماکو - منطقه آزاد تجاری ماکو شهرک صنعتی فاز ۱ خیابان کارآفرینی ۱</p> <p>نام وسیله: سیلر گروه تخصصی: مرمی اندو مدل: Root Canal Therapy نام تجاری: بتا آر سی اس حیطه کاربرد: درمان کانال ریشه دندان Root Canal Therapy</p> <p>سابقه مجوز: تجهیزات و زمان اجرا: تجهیز اجرا نشده ندارد.</p> <p>تجهیزات اجرا نشده: تجهیز اجرا نشده ندارد.</p> <p>تاییدیه CE:</p> <p>در اجرای بند ۱۲ ماده ۱ قانون تشکیلات و وظایف وزارت بهداشت، درمان و آموزش پزشکی مصوب ۱۳۹۵/۰۲/۰۲ و تبصره ۲ ماده ۱۴ از قانون مربوط به مقررات امور پزشکی و دارویی و مواد خورشی و آشامیدنی با اصلاحات و الحاقات بعدی مصوب ۱۳۹۹/۰۲/۰۲ این پروانه صرفاً برای وسیله ذکر شده و یا موارد قید شده در پوسته (اندر صورت داشتن پوسته) صادر گردیده است استفاده از وسیله مذکور با توجه به حیطه کاربرد آن و شرایط مندرج در این پروانه مجاز است در صورت عدم انجام تجهیزات به جهت حفظ سلامت جامعه، پروانه تمدید نخواهد شد.</p> <p>دکتر محمد دایرراد مسئول غذا و دارو دانشگاه علوم پزشکی و خدمات بهداشتی درمانی آذربایجان غربی</p> <p>سازمان غذا و دارو اداره کل تجهیزات پزشکی</p> 
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Precautions:

1- Warning

- This product should not be used in people who are allergic to any part of the sealer ingredients.
- It should be avoided to get out sealer from canal. Of course the sealer leaked from canal is usually tolerated by the tissues around the root but if a large amount of sealer leaks into the mandibular canal, maxillary sinus or nasal cavity, it must be removed immediately by surgical methods.

2- General precautions:

- The safety of this product has not been proven during pregnancy, breastfeeding, children and adolescents.
- Before using the product, check the packaging for damage to the contents.
- Do not use the product after the expiration date.

3- Caution while using the sealer

- Dry the canal with an absorbent paper.
- The mixed sealer should be used only for one patient and using the remaining sealer for another patient is not acceptable in terms of infection control.
- In cases of dental root apical erosion or open apex, make sure that the sealer does not come out of the canal.
- If there is a possibility of tooth color change following root canal treatment, make sure that the sealer is completely removed from the crown area.

4- Side reactions:

- So far, no side reactions have been reported in relation to this type of sealer.

How to use sealer step by step

- Before use, the patient should be checked for allergic reaction to each ingredient of the sealer.
- After cleaning and shaping the canal, disinfect and dry it.
- Choose main absorbent gutta-percha that has an appropriate size and a little retention in the apical region of the canal.
- Sealer powder and liquid are mixed in the ratio of 2 to 3 volume units of powder with 1 volume unit of resin so that after complete mixing, if some amount is separated from the mixture, it does not rise more than 2.5-1.5 centimeters from the surface.
- Transfer the sealer into the canal with the help of the main gutta-percha, file or lentulo.
- Make sure that the sealer is applied to the canal walls.
- Place the main absorbent inside the channel.
- Depending on the type of selection technique (lateral or vertical compaction), continue filling the channel.
- Pay attention to avoid placing a large volume of sealer inside the canal, which causes the sealer to come out from the apical end.
- This sealer is not used in the single-absorbent technique.
- After filling the canal, remove the remains of the sealer from the space of the pulp room with the help of cotton dipped in alcohol.
- After filling the canal, radiography is recommended to confirm the quality of the filling.



BETADENT

Beauty of smile



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