

Filtek™ One Bulk Fill (3M)



Final score: 8,75



PRODUCT DESCRIPTION:

The 3M™ Filtek™ One Bulk Fill is a light-cured composite resin that aims to optimize the restorations, making the restorative procedure easy and fast. This material provides excellent mechanical resistance and low wear, with better esthetics and excellent longevity. The material can be inserted and light cured in increments of up to 5-mm depth, because it has a system for release of polymerization shrinkage stresses and excellent optical properties. The 3M™ Filtek™ One Bulk Fill expands the 3M collection of restorative materials, enhancing the esthetic properties of a bulk fill material, allowing wider use in posterior tooth restorations.

PRODUCT CHARACTERISTICS:

- Higher opacity for better esthetics (as compared to the previous version 3M™ Filtek™ Bulk Fill).
- Fast and easy insertion, in a single increment of up to 5 mm.
- Stress release, allowing curing depth of up to 5 mm.
- Excellent fitting in the cavity.
- Excellent handling and carving.
- True nanotechnology: high wear resistance and excellent retention of polishing.

- High radiopacity.
- Exclusive design of the capsule tip, to facilitate the access to deeper cavities.
- Commercially available in capsules with 0.2 g (shades A2 and A3) and syringes with 4 g (shades A1, A2, A3 and B1).

INDICATIONS FOR USE:

- Direct restorations in posterior teeth (including occlusal surfaces).
- Lining under direct restorations.
- Fabrication of filling cores.
- Splinting of teeth with mobility.
- Indirect restorations including inlays, onlays and veneers.
- Restorations in deciduous teeth.
- Pit and fissure sealants in molars and premolars.
- Repair of defects in ceramic restorations, enamel and provisional crowns.

MAIN COMPETITORS IN THE BRAZILIAN MARKET:

**Tetric N–Ceram Bulk Fill (Ivoclar Vivadent);
Aura (SDI); Opus Bulk Fill (FGM); Sonic Fill (Kerr).**

COMMENTS OF EXAMINERS:

“A “direct” resin with less operational risks.” (Oswaldo Scopin de Andrade).

“Bulk resin with optimal consistency for insertion and carving. I emphasize the low translucency, allowing its exposure in Class I, II and V cavities. Favorable polishing and shade stability.” (Paulo Vinicius Soares).

“Very interesting material for everything it promises, yet the definitive test of clinical longevity is still missing.” (José Roberto Moura).

“Practicality with excellent clinical performance.” (William Kabbach).

“A resin with easy handling and good esthetics.” (Cristian Higashi).

“Being able to insert increments of up to 5 mm in restorations was unimaginable when I graduated. With Filtek™ Bulk One this is possible, combining speed, mechanical resistance and esthetics. All this with the easy handling characteristic of 3M resins. I would say it is fundamental in cases of patients with special needs, elderly patients and for filling cores.” (Rafael Andreiuolo).

“Besides combining the common characteristics of Bulk Fill composite resins, its greater opacity provides better optical results.” (Rodrigo Ehlers Ilkiu).

“I had the opportunity to test the Filtek™ One Bulk Fill resin in both clinical and laboratory aspects. Clinically, the resin impresses by its excellent handling characteristics, facilitating the carving and reducing the working time – which is critical for this type of material. Regarding the laboratory tests, it was evident that 3M was able to develop a bulk-fill resin with greater opacity yet high light curing capacity in great increments.” (Luis Felipe Schneider).

“The truth is that a perfect material will never exist; all of them have some characteristics that should be improved, such as polymerization shrinkage and stress. But now I believe that the materials are very close to that goal. The Filtek One composite resin provides the possibility of easy work in a short time for dentists, which is very comfortable and productive, due to its possibility of insertion in a single increment of up to 5 mm with low percentage of shrinkage. Additionally, the new formulation was very intelligent by bringing a more esthetic resin, which allows greater masking of the substrate and is less translucent, since the patients are increasingly demanding about that aspect.” (Camila Sobral Sampaio).

“Very practical and reliable. I use it for lining, fillings of direct and indirect restorations, great handling.” (Antonio Setsuo Sakamoto Junior).

TIP:

“The 3M™ Filtek™ One Bulk Fill is an evolution of the Filtek™ Bulk Fill, which brought as main advances better carving and especially improved opacity, compared to the first version, allowing a more pleasant final esthetic result. In a simplified comparison, its opacity is now comparable to a body resin, unlike the previous version that presented similar opacity as an enamel resin, which caused some restorations to appear slightly translucent. Another interesting advance is the presentation in capsules, which facilitates the material insertion and reduces the risk of entrapment of bubbles in the restoration. The material is really very easy to insert and carve. At first, the dentist who is used to work by the conventional incremental technique may even experience some difficulty in carving, yet this is quickly solved after few restorations. From now on, the versatility and fast completion of the restorative procedure make this material the first choice for posterior restorations. For those who still have some concerns regarding the use of bulk fill resins such as 3M™ Filtek™ One Bulk Fill, it should be highlighted that this technology is reliable, and a recent clinical study in which more than 200 Class I and II posterior restorations were performed with this resin associated with the adhesive system Adper Single Bond Universal™, conducted at Universidade Federal Fluminense, revealed that less than 5% of cases had postoperative sensitivity, which, when present, was mild and lasted no longer than 48 hours. Also, the time-saving provided by utilization of this new resin was approximately 50%, which is very important in the daily clinical routine. The limited availability of shades does not reduce its value, because the shades available are well suitable for posterior restorations. Therefore, I consider the material very good and surely indicate its use.” (Marcos Barcelheiro).

Palodent® V3 (Dentsply Sirona)



Final score: 9,25



PRODUCT DESCRIPTION:

Palodent® V3 is a system of precontoured sectional matrices that is easy to use and allows fitting to the different dental contours and adequate reestablishment of proximal anatomy and contact points, in a predictable manner and without complications for Class II restorations.

PRODUCT CHARACTERISTICS:

- Introductory kit composed of:
 - 2 rings (narrow and universal);
 - Pin-Tweezer
 - V3 plier;
 - 100 sectional matrices: 25x 3.5mm / 25x 4.5mm / 25x 5.5 mm / 25x 6.5mm;
 - 75 anatomical wedges in three sizes: 25x S / 25x M / 25x L;
 - 30 smart protective wedges in three sizes: 25x S / 25x M / 25x L.
- All components have refill for replacement; 7.5 matrices are only available in refill.
- Ni-Ti retention rings, a nickel-titanium alloy that simultaneously provides compressive force for separation of teeth without deformation. It has a glass fiber-reinforced plastic claw and in inverted “V” shape that allows the wedge placement from both sides (buccal or lingual) without competing for space. The rings are autoclavable, resistant and DURABLE, withstanding up to 1,000 cycles.
- Ultra-thin precontoured sectional matrices with pronounced marginal ridge and significantly greater horizontal curvature, which contributes to a precise anatomy and avoids the matrix collapse, even in wide cavities and missing cusps. The cervical flap prevents flaws in the subgingival region.
- V3 pliers (forceps) with locking function and bowed arms that facilitate stable ring placement, in mesial and distal position. It has an internal slot to reset the ring shape.
- Anatomical wedges that compress upon insertion and widen at the exit for easy placement and sealing. The fact that they are hollow also allows placement of a superimposed second wedge or even from the opposite side, contributing to good fit of the matrix. They are made of plastic instead of wood, and thus they do not swell with moisture from saliva. The glass fiber-reinforced NiTi rings (in two sizes) guarantee adequate matrix stabilization without excessive effort.
- Intelligent protective wedge with attached removable guard that reduces the risk of damage to the adjacent tooth and allows faster and easier cavity preparation. “Intelligent” because the protection detaches after cavity preparation, leaving the wedge in place.
- Pin tweezer with pin at the tip that attaches to the orifice of components for greater control. The closed natural position minimizes the risk of loose components. It has a burnishing ball attached to the tip.
- Five sizes of matrices that allow the accomplishment of Class II restorations in several clinical situations and cervical-occlusal heights.

MAIN COMPETITORS IN THE BRAZILIAN MARKET:

Composi-Tight 3D Fusion (Garrison Dental), Contact Matrix (Danville), Unimatrix (TDV), Unimatrix R (TDV).

INDICATIONS FOR USE:

- Direct Class II restorations in posterior teeth: individual or adjacent.
- It allows precise restoration of Class II cavities with significant wall loss, due to the ring shape.
- The wedge guard may be used for protection of adjacent teeth in preparations of anterior and posterior teeth.

COMMENTS OF EXAMINERS:

“The ring quality and matrix thickness provide excellent quality of proximal contact.” (Ronaldo Hirata).

“Technical facility to “contour” one of the most critical problems in restorative dentistry: the proximal contact.” (Oswaldo Scopin de Andrade).

“The fitting of the ring on the wedge and the thin matrix thickness promote excellent resin adaptation and wider and more intense interproximal contact.” (Cristian Higashi).

“Complete and practical system for matrix insertion and fitting, with many possibilities for resolution of the diverse cases observed in daily clinics.” (Antônio Setsuo Sakamoto Junior).

“Besides the excellent anatomical ring that allows internal passage of the wedge and the thin matrix thickness, allowing excellent quality of proximal contact, the Palodent V3 is innovative with its protective wedges.” (Rodrigo Ehlers Ilkiu).

“The Palodent V3 is a protocol in my clinic, used by all professionals.” (José Arbex Filho).

“Excellent kit for proximal restorations, allowing adequate reestablishment of proximal contacts. The variations of matrices and wedges allow work in different clinical cases.” (Marcelo Giannini).

“Extremely well-designed sectional matrix system with excellent accessories that allow the dental professional to perform effective restorative procedures

in Class II cavities. In particular, I do not know any other system that meets the needs related to such difficult restorations.” (Gustavo Oliveira dos Santos).

“The Palodent V3 is a matrix system that facilitates the achievement of contact points, besides practicality and simple insertion and removal of the matrix, wedge and clasp. Its plier, developed for wedge insertion and matrix burnishing, is unique. The clasp holder has a perfect fit, precluding the clasp from “jumping”. I love this kit and I use it daily in my office.” (Fabiano Marson).

“Since its original version in 1986, it has allowed significantly better composite resin restorations in posterior teeth.” (José Roberto Moura).

“Accurate posterior contact points.” (William Kabbach).

“Practical system, easy to use, with premium quality and reasonably high cost, which impairs its wide use.” (Paulo Vinicius Soares).

TIP:

“All items that make up the Palodent V3 kit are fundamental to achieve a proximal surface contact. However, the great differentials are the protective wedges (which are fundamental to protect the adjacent tooth during proximal preparation and protect it during acid etching and application of adhesive system) and the anatomical wedges, which can be coupled one over the other, increasing their height and allowing better cervical adaptation of the matrix in the cervical region of teeth with long clinical crowns.” (Rodrigo Ehlers Ilkiu)