

ENGLISH

General Information

3M ESPE™ Filtek™ Z500 Universal Restorative material, is a visible-light activated, radiopaque restorative composite designed for use in anterior and posterior restorations. The resin area is a combination of aggregated zirconia/silica cluster fill with an average cluster particle size of 0.6 to 1.4 microns with primary particle size of 5-20 nm and a non-agglomerated non-aggregated 20 nm silica filler. The inorganic filler loading is about 75.5% by wt (59.5% by volume). Filtek Z500 restorative contains bis-GMA, UDMA, TEGDMA, and bis-EMA resins. A 3M ESPE dental adhesive is used to permanently bond the restoration to the tooth structure. The restorative is available in a wide variety of shades. It is packaged in traditional syringes and single-dose capsules.

Indications
Filtek Z500 universal restorative is indicated for use in:
• Direct anterior and posterior restorations (including occlusal surfaces)
• Core Build-ups
• Splinting
Indirect restorations including inlays, onlays and veneers

Precautionary Information for Patients

This product contains substances that may cause an allergic reaction by skin contact in certain individuals. Avoid use of this product in patients with known acrylic allergies. If prolonged contact with oral soft tissue occurs, flush with large amounts of water. If allergic reaction occurs, seek medical attention as needed, remove the product if necessary and discontinue future use of the product.

Precautionary Information for Dental Personnel

This product contains substances that may cause an allergic reaction by skin contact in certain individuals. To reduce the risk of allergic responses, minimize exposure to these materials. In particular, avoid exposure to uncured product. If skin contact occurs, wash skin with soap and water. Use of protective gloves and a no-touch technique is recommended. Acrylates may penetrate commonly used gloves. If product comes in contact with gloves, remove and discard glove, wash hands immediately with soap and water and then re-glove. If allergic reaction occurs, seek medical attention as needed.

3M ESPE MSDS can be obtained from www.3MESPE.com or contact your local subsidiary.

Instructions for Use

Preparation
1. **Prep:** The tooth should be cleaned with pumice and water to remove surface stains.

2. **Shade Selection:** Before isolating the tooth, select the appropriate shade(s) of restorative material using a standard VITAPAN® Classic shade guide. Shade selection cannot be enhanced by the following hints.

- Shade:** Teeth are not monochromatic. The tooth can be divided into three regions, each with a characteristic color.
 - a) Gingival area:** Restorations in the gingival area of the tooth will have various amounts of yellow.
 - b) Body area:** Restorations in the body of the tooth may consist of shades of gray, yellow or brown.
 - c) Incisal area:** The incisal edges may contain a blue or gray color. Additionally, the translucency of this area and the extent of the translucent portion of the tooth may be restored using sepiotinted teeth should be matched.
- Restoration depth:** The amount of color a restorative material exhibits is affected by its thickness. Shade matches should be taken from the portion of the shade guide most similar to the thickness of the restoration.
- Mock-up:** Place the chosen shade of the restorative material on the unetched tooth. Manipulate the material to approximate the thickness and shade of the restoration. Cure. Evaluate the shade match under different lighting sources. Remove the restorative material from the unetched tooth with an explorer. Repeat process until an acceptable shade match is achieved.
- Isolation:** A rubber dam is the preferred method of isolation. Cotton rolls plus an explorer can also be used.

Direct Restorations

1. Cavity Preparation:

- Anterior restorations:** Use conventional cavity preparations for all Class III, IV and V restorations.
- Posterior restorations:** Prepare the cavity. Line and point angles should be rounded. No residual amalgam or other base material should be left in the internal form of the preparation that would interfere with light transmission and therefore, the hardening of the restorative material.

- Pulp Protection:** If a pulp exposure has occurred and if the situation warrants a direct pulp capping procedure, use a minimum amount of calcium hydroxide on the exposure followed by an application of Vitrebond™ or Vitrebond™ Plus Light Cure Glass Ionomer Liner/Sealer, manufactured by 3M ESPE. Vitrebond liner/sealer may also be used in areas of deep cavity exposure. See the Vitrebond linerbase instructions for details.

3. Placement of Matrix:

- Anterior restorations:** Mylar strips and crown forms may be used to minimize the amount of material used.
- Posterior restorations:** Prepare a thin dead-salt mold, or a pre-contoured-mylar or a pre-contoured-matrix band and insert wedges firmly. Burnish the matrix band to establish proximal contact and contact area. Adapt the band to seal the gingival area to avoid overhangs.

Note: The matrix may be placed following the enamel etching and adhesive application steps if preferred.

- Adhesive System:** Follow the manufacturer's instructions regarding etching, priming, adhesive application, and curing, for example 3M ESPE adhesives.
- Dispensing the Composite:** Follow the directions corresponding to the dispensing system used.

- Syringe:** Dispense the necessary amount of restorative material from the syringe with the handle by turning the handle slowly in a clockwise manner. To prevent curing of the restorative when dispensing is completed, replace the handle counterclockwise a half turn to stop paste flow. Immediately, turn syringe cap. If not used immediately, the dispensed material should be protected from light.

- Single-Dose Capsule:** Insert capsule into 3M ESPE Restorative Dispenser, manipulate the dispenser to separate restorative material. Dispense restorations for full instructions and precautions. Extrude restorative directly into cavity.

6. Placement:

- Place and light cure restorative in increments as indicated in Section 7.
- Slightly overlap the cavity to permit extension of composite beyond cavity margins. Contour and shape with appropriate composite instruments.
- Avoid intense light in working field.

- Posterior placement items:**
 - a) To aid in adaptation, the first 1mm layer may be placed and adapted to the proximal box.
 - b) A condensing instrument (or similar device) can be used to adapt the material to all of the internal cavity features.

- Curing:** This product is intended to be cured by exposure to a halogen or LED light with a minimum intensity of 400mW/cm² in the 400-500nm range. Cure each increment by exposing its entire surface to a high intensity visible light source, such as a 3M ESPE curing light. Hold the light guide tip as close to the restorative as possible during light exposure.

Shades	Incremental depth	Cure time
All other shades	2.0mm	20 sec.
Opaque shades	1.5mm	40 sec.

- Contouring:** Contour restoration surfaces with the finishing diamonds, burs or stones. Contour proximal surfaces with So-Lex™ Finishing Strips, manufactured for 3M ESPE.
- Adapt Occlusion:** Check the contact with a thin articulating paper. Examine occlusal and lateral occlusion carefully. Carefully adjust occlusion by removing material with a fine polishing diamond or stone.

- Finish and Polishing:** Polish with the So-Lex™ Finishing and Polishing System. **Indirect Procedure for Inlays, Onlays or Veneers**

1. Dental Operatory Procedure

- Shade Selection:** Choose the appropriate shade(s) of Filtek Z500 universal restorative prior to isolation. If the restoration is of sufficient depth, use of an opaque shade is recommended.
- Preparation:** Prepare the tooth.
- Impressioning:** After preparation is complete, make an impression of the prepared tooth by following the manufacturer's instructions of the impressioning material. An impressioning material, such as manufactured by 3M ESPE, may be used.

- Layering Process:** Follow the preparation of these steps. Place pins at the preparation site at this time if a "triple try" type of impression was used.
- Separate the cast from the impression after 45 to 60 minutes. Place pins in die and base the cast as for a typical crown and bridge procedure. Mount or articulate the cast to its counter mold on an adequate articulator.
- Impression:** Impression was not set, pour a second cast using the same impression registration. This is to be used as a working cast.

- A section out the preparation with a laboratory saw and trim away excess or, expose the margins so they can be easily worked. Mark the margins with a red pencil if needed. *Adapt a spacer at this time if one is required.*
- Soak the die in water, then with a brush, apply a very thin coat of separating medium to the preparation, let it dry somewhat, then add another thin layer.

- Add the first increment of composite to the floor of the preparation, stay short of the margins, and follow the cure recommendations described in the Direct Restoration section (Step 7).
- Place and cure additional increments of composite. Allow for the last increment (incisal) to include the contact areas.
- Place the die back into the articulated arch. Add the last increment of composite to the occlusal surface. Overfill very slightly mesially, distally, and occlusally. This will allow for the mesiodistal contacts and the proper occlusal contact when the opposing arch is being cured to occlusion with the uncured increment. Light cure for only ten seconds. Then remove the die to prevent adhering to the adjacent surfaces. Finish the curing process following the cure times in the Direct Restoration section (Step 7).

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- Soak the die in water, then with a brush, apply a very thin coat of separating medium to the preparation, let it dry somewhat, then add another thin layer.

- Add the first increment of composite to the floor of the preparation, stay short of the margins, and follow the cure recommendations described in the Direct Restoration section (Step 7).
- Place and cure additional increments of composite. Allow for the last increment (incisal) to include the contact areas.
- Place the die back into the articulated arch. Add the last increment of composite to the occlusal surface. Overfill very slightly mesially, distally, and occlusally. This will allow for the mesiodistal contacts and the proper occlusal contact when the opposing arch is being cured to occlusion with the uncured increment. Light cure for only ten seconds. Then remove the die to prevent adhering to the adjacent surfaces. Finish the curing process following the cure times in the Direct Restoration section (Step 7).

- Color:** The preparation of the preparation with these steps. Place pins at the preparation site at this time if a "triple try" type of impression was used.
- Separate the cast from the impression after 45 to 60 minutes. Place pins in die and base the cast as for a typical crown and bridge procedure. Mount or articulate the cast to its counter mold on an adequate articulator.
- Impression:** Impression was not set, pour a second cast using the same impression registration. This is to be used as a working cast.

- A section out the preparation with a laboratory saw and trim away excess or, expose the margins so they can be easily worked. Mark the margins with a red pencil if needed. *Adapt a spacer at this time if one is required.*
- Soak the die in water, then with a brush, apply a very thin coat of separating medium to the preparation, let it dry somewhat, then add another thin layer.

3 Isolering: Isolering of de borrensché é i métdo prefêrêdo foer isolamênt. Podem tambein sear utilizadros rôdo de alôgrêdo e um aspirador de saliva.

Restaurações Diretas

1. Preparação da cavidade:

- 1.1 Restaurações Anteriores:** Use preparativos de cavidade convencionais para todas as restaurações das Classes III, IV e V.
- 1.2 Restaurações Posteriores:** Prepare a cavidade. Os ângulos direitos e em bico devem ser arredondados. Não se deve deixar resíduos de amalgamo ou outro material base nas formas internas da preparação que possam interferir com a transmissão de luz e consequentemente com o endurecimento do material restaurador.

- 2. Proteção polipêdo:** Se a póla estiver exposta e a situação impedir um talcamento direto do preenchimento da póla, use uma quantidade mínima de hidróxido de cálcio na parte exposta seguida de Vitrebond Plus Light Cure Glass ionomer liner. Vitrebond Plus Light Cure Glass fabricado pela 3M ESPE. O revestimento/base Vitrebond pode também ser utilizado para revestir áreas de escavação profunda da cavidade. Para mais pormenores consulte as instruções da base/revestimento Vitrebond.

3. Colocação da Matriz:

- 3.1 Restaurações Anteriores:** Podem utilizar-se tiras Mylar e formas de coroas para minimizar a quantidade de material a utilizar.
- 3.2 Restaurações Posteriores:** Coloque uma banda macia e fina de metal, ou uma mylar-pré-formada, ou uma faixa matriz de metal pré controlada e insira as pontas/conchas com firmeza. Faça o brunimento da banda para estabelecer o contato proximal e a área de contato. Ajuste a banda de modo a vedar a área gengival e evitar que transborde.

Nota: Se preferido, a matriz pode ser colocada após os passos de desmineralização do esmalte e de aplicação do adesivo.

- 4. Sistema adesivo:** Siga as instruções do fabricante no que respeita à desmineralização, primário/preparação, aplicação de adesivo, e polimerização, por exemplo adesivos 3M ESPE.

- 5. Aplicação DO Composto:** Cumprir as instruções correspondentes ao sistema de utilização escolhido.

- 5.1 Serragem:** Retirar da serriga a quantidade necessária de material de restauração para um bloco de mistura grande lentamente a espátula no sentido dos ponteiros do relógio. Para evitar que o material de restauração escorra depois de retirado a quantidade necessária, girar o manípulo meia volta no sentido contrário aos ponteiros do relógio para o fluxo de pasta a ser removido imediatamente a partir da serragem. Se não for utilizado imediatamente, o material retirado deve ser protegido da luz.

- 5.2 Cápsula Unidose:** Insira a cápsula no aparelho de Restauração 3M ESPE, fabricado pela 3M ESPE. Consultar as instruções separadas do dispensador de restaurador relativamente a precauções e instruções. Expelir o material de restauração directamente na cavidade.

- 6. Colocação:**
 - a) **Aplicar e fotopolimerizar** o material restaurador, em pequenos incrementos, como indicado na Secção 7.
 - b) Deixar transbordar ligeiramente o preenchimento da cavidade para permitir a extensão do instrumento para além das margens da cavidade. Contornar e transformar com movimentos de compósito apropriados.
 - c) Evitar a luz intensa no campo de trabalho.
 - d) Sugestões para a colocação posterior:
 - a) Para ajustar na adaptação, a primeira camada de 1mm pode ser colocada e adaptada à caixa proximal.
 - b) Um instrumento condutor (ou dispositivo similar) pode ser usado para adaptar o material a todos os aspectos internos da cavidade.

- 7. Polimerização:** Este produto é concebido para ser polimerizado por exposição a uma luz de halógeno ou LED com uma intensidade mínima de 400 mW/cm² no tempo de 400 s - 500 s. Polimerizar cada incremento expondo toda a sua superfície a uma fonte de luz visível de alta intensidade, tal como a luz polimerizadora 3M ESPE. Manter a ponta luminosa da luz de luz tão próxima quanto possível da restauração durante a exposição à luz.

Tonalidades	Profundidade Incremental	Tempo de polimerização
Todas as outras tonalidades	2,0 mm	20 seg.
Tonalidades Opacas	1,5 mm	40 seg.

- 8. Contorno:** Faça um polimento das superfícies a restaurar. Contorne as superfícies proximais com as flâs de acetato Soft-Lex™, fabricadas por 3M ESPE.
- 9. Ajuste a Oclusão:** Verifique a oclusão com o aparelho de Verificação dos Contatos Centrais e laterais. Com cuidado ajuste a oclusão retirando o material com discos de polimento de diamante ou de pedra.

- 10. Acabamento e Polimento:** Polir com o sistema Soft-Lex™ de Acabamento e Polimento.

Procedimento Indirecto para Inlay/Embutimentos, Onlays e Facetas

- 1. Procedimento Operatório Dental**

- 1.1 Seleção da Tonalidade:** Escolha a(s) tonalidade(s) apropriada(s) do restaurador universal Filtek Z500 antes de iniciar o isolamento. Se for necessário, polimerize profundamente a recomendada a utilização duas tonalidades opacas.

Tonalidades	Profundidade Incremental	Tempo de polimerização
Todas as outras tonalidades	2,0 mm	20 seg.
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- 10. Acabamento e Polimento:** Polir com o sistema Soft-Lex™ de Acabamento e Polimento.

Procedimento Indirecto para Inlay/Embutimentos, Onlays e Facetas

- 1. Procedimento Operatório Dental**

- 1.1 Seleção da Tonalidade:** Escolha a(s) tonalidade(s) apropriada(s) do restaurador universal Filtek Z500 antes de iniciar o isolamento. Se for necessário, polimerize profundamente a recomendada a utilização duas tonalidades opacas.

- 1.2 Impressão:** Depois de completa a preparação, faça uma impressão do dente preparado seguindo as instruções do fabricante do material de impressão escolhido. Um material de impressão, tal como o que é fabricado pela 3M ESPE, pode ser utilizado.

- 2. Procedimento Laboratorial**

- 2.1 Encha a impressão da preparação com pasta de fundição. Colocar agarr pinos no local da preparação se foi usada impressão de tipo "bandeja tríplice".
- 2.2 Separar o molde da impressão após 45 a 60 minutos. Coloque os pinos no molde e rebabe o molde como em qualquer procedimento típico de coroa ou ponte. Monte ou acurle o gesso/ molde novo ou contra molde novo articulador adequado.
- 2.3 Se a luz estiver disponível, encha o segundo molde/estatuilização do mesmo regime de impressão. Este é para ser utilizado como o molde/cast de trabalho.

- 2.4 Separe a preparação com a serra de laboratório e corte o excesso, ou exponha as margens para que possam ser facilmente trabalhadas. Marque as margens com um lápis vermelho se for necessário. Se for necessário um espacador, insira-o agora.

- 2.5 Mergulhe o molde em água, e depois em uma escova, apique uma camada fina de meio de separação na preparação, deixe secar um pouco e adicione outra camada fina.

- 2.6 Adicione o primeiro incremento de compósito na base da preparação, sem aplicar nas margens, e siga as recomendações de polimerização descritas na Secção da Restauração Directa (Passo 7).

- 2.7 Coloque e polimerize os incrementos adicionais de compósito. Permita que o último incremento (incisal) inclua as áreas de contacto.

- 2.8 Vole a colocar o molde na arcada anterior, distal e último incremento de compósito à superfície occlusal. Extravase um pouco na porção mesial, distal e occlusal. Isto permitirá os contactos mesiodistais e o contacto occlusal adequado quando a arcada oposta for levada à oclusão com o incremento não polimerizado. Fotopolimerize por apenas 10 segundos, depois remova o molde e fixe o molde às superfícies adjacentes. Acabe o processo de polimerização seguindo os tempos de polimerização na Secção da Restauração Directa (Passo 7).

- 2.9 Com os contactos occlusais já estabelecidos, comece a remover o excesso de compósito em volta dos pontos de contacto. Desenvolver as inclinações e sulcos conforme a restante anatomia occlusal.

- 2.10 É preciso cuidado ao remover a prótese do molde. Retire pequenas quantidades do molde em torno da restauração, a pedra do molde deve sair ao quebrar sem deixar vestígios na restauração polimerizada, até que esteja recuperada toda a restauração.

- 2.11 Utilizando o molde mestra, verifique se a restauração está alinhada, com reentrâncias, e o ajuste necessário. Faça os ajustes necessários e, depois o polimento, como acima indicado nas etapas Restaurativas Directas passos 8-10.

- 3. Procedimento Operatório Dental**

- 3.1 Tome aspreas as superfícies interiores da restauração indirecta.

- 3.2 Limpe a prótese numa solução de sabão num banho ultra-sónico e enxagüe-a completamente.

- 3.3 Cementação: Cimentar a prótese com um sistema de cimento de resina 3M ESPE, fabricado por 3M ESPE, seguindo as instruções do fabricante.

Armazenamento e Utilização

- 1. Este produto está concebido para ser utilizado a temperatura ambiente. Se for arreadado num frigorífico, permitir que o produto alcance a temperatura ambiente antes de o utilizar. O prazo de validade à temperatura ambiente é de 36 meses. Temperaturas inferiores habitualmente superam os 27°C/80°F, podem reduzir a duração de conservação. Consultar o prazo de validade na embalagem exterior.
- 2. Não expor os materiais de restauração a temperaturas elevadas ou a luz intensa.
- 3. Não amassar materiais na proximidade de produtos que contêmham eugenol. Desinfectar este produto através dum processo de meio intermédio de desinfecção (contacto líquido) conforme recomendado pelos Centers for Disease Control/Centros para Controlo de Doenças e endossado pela American Dental Association/Associação Dentária de América. Diretrizes para o Controlo da Infecção nos Ambientes para Cuidados da Saúde Dentária - 2003 (Vol. 52, NR-17), Centros para Controlo e Prevenção das Doenças/Centros for Disease Control and Prevention.

Informação para os clientes
A 3M ESPE garante que este produto está isento de defeitos em termos de material e fabrico. A 3M ESPE NÃO FAZ QUANTAS-OUtras GARANTIAS OU GARANTIAS IMPLÍCITAS DE MERCANTILIDADE OU ADEQUAÇÃO A UM USUÁRIO PARTICULAR. O usuário é responsável por determinar a adequação do produto à aplicação em causa. Se o produto se apresentar defeituoso dentro do período de garantia, o seu único recurso é a única obrigação da 3M ESPE de reparação ou substituição do produto de 3M ESPE.

Limite de Responsabilidade

Exceto quando proibido por lei, a 3M ESPE não é responsável por quaisquer perdas ou danos resultantes deste produto, sejam directos, indirectos, especiais, supervenientes ou consecutivos, independentemente da teoria defendida, incluindo garantia, contrato, negligência ou responsabilidade estrita.

NEDERLANDS

Algemene Informatie
3M™ ESPE™ Filtek™ Z500 universeel restauratiemateriaal is een door zichtbaar licht geactiveerd, radioopac komposit restauratiemateriaal voor gebruik bij anterieure en posterieure restauraties. De vullstoffen zijn een geavanceerde zirkonumoxied (zirconia) vullstoffen met een kleine deeltjes grootte (slijt) clusterstructuur die resulteert in een gemiddeld deeltjesgrootte van 0,6 tot 1,4 micrometer. Deze hebben een primaar deeltjesgrootte van 5 - 20 nm en een niet geduceerd/niet gebonden 200 nm silica vullstof. De anorganische vullstof bedraagt 78,5 gew.-% (59,5 vol.-%). Filtek Z500 restauratiemateriaal bevat Bi-GMA, UDMA, TEGDMA en Bi-GM resin.
3M ESPE

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- 2. Não expor os materiais de restauração a temperaturas elevadas ou a luz intensa.

- 3. Não amassar materiais na proximidade de produtos que contêmham eugenol. Desinfectar este produto através dum processo de meio intermédio de desinfecção (contacto líquido) conforme recomendado pelos Centers for Disease Control/Centros para Controlo de Doenças e endossado pela American Dental Association/Associação Dentária de América.

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- 2. Não expor os materiais de restauração a temperaturas elevadas ou a luz intensa.
- 3. Não amassar materiais na proximidade de produtos que contêmham eugenol. Desinfectar este produto através dum processo de meio intermédio de desinfecção (contacto líquido) conforme recomendado pelos Centers for Disease Control/Centros para Controlo de Doenças e endossado pela American Dental Association/Associação Dentária de América. Diretrizes para o Controlo da Infecção nos Ambientes para Cuidados da Saúde Dentária - 2003 (Vol. 52, NR-17), Centros para Controlo e Prevenção das Doenças/Centros for Disease Control and Prevention.

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3M ESPE

Opleg en gebruik

- 1. Dit product is bedoeld voor gebruik bij kamertemperatuur. Als het product in een koelkast wordt bewaard, laat het dan voor gebruik op kamertemperatuur komen. Houdbaarheid op kamertemperatuur is 36 maanden. Omgevingsstemperaturen die regelmatig hoger zijn dan 27°C/80°F kunnen de houdbaarheid verminderen. De ze verpakking voor de houdbaarheidsdatum.

- 2. Stel het restauratiemateriaal niet bloot aan hoge temperaturen of intens licht.

- 3. Bewaar materialen niet in de nabijheid van eugenol houdende producten.
Materialen die product met een middelevenwige desinfectieprocees (vloeistofcontact) zoals aanbevolen door de Amerikaanse Centres for Disease Control en goedgekeurd door de American Dental Association. Richtlijnen voor Infection Control in Dental Health-Care Settings - 2003 (Vol. 52, No. RR-17), Centers for Disease Control and Prevention.

Verpakkingverklaring - Raadpleeg het veiligheidsinformatieblad (beschikbaar op www.3MSE.com of via uw plaatselijke distributorenmededeel) voor informatie over de afval van dit product.

Consumenteninformatie

Geen enkele persoon heeft het recht informatie te verschaften die afwijkt van hetgeen beschreven is in deze gebruiksaanwijzing.

Garantie

3M ESPE garandeert dat dit product vrij is van inclusief- en fabricagefouten. 3M ESPE BIET GEEN ENKELE ANDERE GARANTIE, inclusief STILZWIGENDE GARANTIES VAN VERVOEROPBAARHEID OF ONDERFORSTAADE GARANTIE, met inbegrip van de verantwoordelijkheid van de gebruiker te bepalen of het product geschikt is voor de gebruikte toepassing. Als dit product binnen de garantieperiode defect raakt, is een exclusieve rechtsmidde om de eventuele verplichting van 3M ESPE reparatie of vervanging van het 3M ESPE-product.

Beperking van aansprakelijkheid

Tenzij anders vermeld, aanvaardt de 3M ESPE niet aansprakelijkheid voor verlies of schade ten gevolge van het gebruik van dit product, of dit nu direct of indirect, speciaal, incidenteel of gevolg schade is, ongeacht de aangevoerde theorie, inclusief garantie, contract, nalatigheid of strikte aansprakelijkheid.

SVENSKA

Allmän information

3M™ ESPE™ Filtek™ Z500 är ett universalt, med syntigt lys ljushärdande fyllingsmaterial med rågrönkontrast och som är avsett för anteriora och posteriora fyllningar. Fyllerna är en kombination av aggregerade filerpartiklar i zirkoniumsyndioxidklastor med en genomsnittligt klastestorlek på 0,6 till 1,4 µm, en primär partikelstorlek av 5-20 nm och en icke-agglomererad/icke-aggregerad 200 nm klastor. Den organiska fyllerblandningen är cirka 78,5 viktprocent (59,5 volymprocent). Filtek Z500 fyllingsmaterial innehåller Bi-GMA, UDMA, TEGDMA och Bi-GMA-resin. En 3M ESPE direktadhesiv används för att fästa fyllningen permanent mot tandstrukturen. Fyllingsmaterialet finns i många olika färger. Det är tillåtet i vanliga sprut och endoskoper.

Preparat

- 1. Polijsten:** Elementen dienen gereinigt to worden met puisteen en een vlakke of vlakke en vullende te verwijderen.

- 2. Kleurbelegging:** Selecteer, voor u het element isoleert, de juiste kleur(en) van het restauratiemateriaal met behulp van een standaard VITAPAN® Classic Kleurselectie. Echter, suggesties ten behoeve van de juiste kleurkeuze zijn hieronder opgenomen.

- 2.1** **Kleur:** Elementen zijn niet monochromatisch. Elk van de drie gebieden op een element heeft een karakteristieke kleur.

- a) Gingivale gebied:** Let op de hoeveelheid gel in het gingivale deel van de restauratie. Het gingivale gebied: Observeer het centrale deel van het element en zoek de karakteristieke kleuren in het grijs, geel of bruin.

- b) Incisale gebied:** Bekijk de incisale rand van het te restaureren element en de buurelementen. Deze kunnen een typische bandje van grijs/kleur hebben. De transluente van dit gebied en de grootte van het transluente gedeelte van het te restaureren element en aangrenzende element dienen in overeenstemming te worden gebracht.

- 2.2 Restauraatdekke:** De kleurentinten van een restauratiemateriaal wordt bepaald door de dikte. De kleur moet worden bepaald op het deel van de shade guide dat overeenkomt met de dikte van de restauratie.

- 2.3 Mock-up:** Breng de gekozen kleur van het composit op het ongeblijste element aan. Manipuleer het met de vingers of de tanden. Het is niet nodig om de restauratie te isoleren of de kleurelementen onder verschillende lichtomstandigheden. Het een sonde kan de mock-up verwijderen worden. Herhaal dit proces totdat er een acceptabele kleurelementen is bereikt.

- 3. Isolatie:** Werk onder een rubberdam of de aanbevolen methode om het element droog te leggen. Ook kunnen waterdichten met afzuring worden gebruikt.

Directe Restauraties

- 1.1 Selectie van Tonaliteiten:** Kies een conventionele coloratiepreparaat voor klasse III, IV en V in restauraties.

- 1.2 Impressie:** Nadat de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2. Laboratoriumprocedures**

- 2.1 Enkelt de impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.2 Separer de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.3 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.4 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.5 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.6 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.7 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.8 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.9 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.10 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.11 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.12 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.13 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.14 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.15 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.16 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.17 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.18 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.19 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.20 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.21 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.22 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.23 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.24 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.25 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.26 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.27 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.28 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.29 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.30 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.31 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.

- 2.32 Maak een impressie van de voorbereiding van de preparatie, maak een impressie van het dente voorbereid volgens de instructies van het materiaal van de impressie. Een materiaal van impressie, zoals dat van de 3M ESPE, kan worden gebruikt.