

Resin-based Dental Restorative Material

ESTELITE Σ QUICK

Instructions for Use

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ENGLISH	한국어	ภาษาไทย	繁體中文
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ENGLISH

Read all information, precautions and notes before using.

PRODUCT DESCRIPTION AND GENERAL INFORMATION

- ESTELITE Σ QUICK is a light-cured, radiopaque, submicron filled composite resin for use in anterior and posterior restorations and is indicated for all common classes. It has radiopacity equal to or greater than 1mm aluminum, and is classified as a Type 2 and Class 3 material by ISO 4049. ESTELITE Σ QUICK contains 82% by weight (71% by volume) of silica-zirconia filler and composite filler. A high filler load offers decreased polymerization shrinkage. All inorganic filler contained in ESTELITE Σ QUICK is a spherical submicron filler (mean particle size: 0.2 μm, particle size range: 0.1 to 0.3 μm) that is designed to deliver excellent gloss retention and wear resistance. The monomer matrix contains Bis-GMA and Triethylene glycol dimethacrylate.
- ESTELITE Σ QUICK implements Radical-Amplified Photopolymerization initiator technology (RAP technology). Curing time for ESTELITE Σ QUICK can be shortened by one-third using a light curing unit with a wave-length range of 400 to 500nm (peak: 470nm) compared to our conventional resin composite. Please see the table depicting the relationship between curing time and increment depth (■INDICATIONS FOR FILLING AND CUR-ING).
- RAP technology facilitates a longer working time for ESELITE Σ QUICK.
- ESTELITE Σ QUICK is provided either in SYRINGE or Pre Loaded Tip(PLT).

- SHADE**
A1, A2, A3, A3.5, A4, A5, B1, B2, B3, B4, C1, C2, C3, OA1, OA2, OA3, OPA2, BW (Bleach White), WE (White Enamel) and CE (Clear Enamel/Incisal).
-Opalescent shades (OA1, OA2, OA3) have adequate opacity designed for blocking out the dark shade that comes through the oral cavity (Class III and Class IV restorations). The opalescent shades also serve as a dentin layer for the multi-shade layering technique. Shades OA1, OA2 and BW closely match those of primary teeth. However, they are not designed for masking metal or a darkly stained area such as tetracycline stained.
- OPA2 is designed for masking slight stain or reconstructing a highly opaque tooth (use as a thin layer at the lingual cavity wall of class III and IV).
- Please check with your local distributor for available shades.

INDICATIONS

- Direct anterior and posterior restorations including the occlusal surface and all common classes
- Direct bonded composite veneer
- Dietasma closure
- Repair of porcelain/composite

CONTRAINDICATIONS

ESTELITE Σ QUICK contains methacrylic monomers. DO not use ESTELITE Σ QUICK for patients allergic to or hypersensitive to methacrylic and related monomers.

PRECAUTIONS

- DO NOT use ESTELITE Σ QUICK for any purpose other than those listed in these instructions. Use ESTELITE Σ QUICK only as directed herein.
- ESTELITE Σ QUICK is designed for sale and use by licensed dental care professionals only. It is not designed for sale nor is it suitable for use by non-dental care professionals.
- DO NOT use ESTELITE Σ QUICK if the safety seals are broken or appear to have been tampered with.
- If ESTELITE Σ QUICK causes an allergic reaction or oversensitivity, discontinue its use immediately.
- Use examination gloves (plastic, vinyl, or latex) at all times when handling ESTELITE Σ QUICK to avoid the possibility of allergic reactions from meth-acrylic monomers. Note: Certain substances/materials may penetrate through examination gloves. If ESTELITE Σ QUICK comes in contact with the ex-amination gloves, remove and dispose of the gloves, and wash hands thor-oughly with water as soon as possible.
- Avoid contact of ESTELITE Σ QUICK with eyes, mucosal membrane, skin and clothing.
- If ESTELITE Σ QUICK comes in contact with the eyes, thoroughly flush eyes with water and immediately contact an ophthalmologist.
- If ESTELITE Σ QUICK comes in contact with the mucosal membrane, wipe the affected area immediately, and thoroughly flush with water after the resto-ration.
- If ESTELITE Σ QUICK comes into contact with the skin or clothing, im-mediately saturate the area with alcohol-soaked cotton swab or gauze.
- Instruct the patient to rinse his mouth immediately after treatment.
- ESTELITE Σ QUICK should not be ingested or aspirated. Ingestion or aspira-tion may cause serious injury.
- To avoid the unintentional ingestion of ESTELITE Σ QUICK, do not leave it unsupervised within the reach of patients and children.
- Clean the placement instruments with alcohol after use.
- When using a light-curing unit, protective eye shields, glasses or goggles should be worn.

INDICATIONS FOR FILLING AND CURING

Be sure to light-cure ESTELITE Σ QUICK externally and check the time needed for complete hardening of ESTELITE Σ QUICK with your light curing unit before performing the bonding procedure. The following table illustrates the relationship between curing time and increment depth.

Light type	Intensity (mW/cm ²)	Curing time (seconds)	Increment depth (mm) ¹⁾		
			A1, A2, A3, A3.5, B1, B2, B3, C1, C2, OA1, OA2, CE(Inc.), BW, WE	A4, A5, B4, C3, OA3, OPA2	
Halogen	400	10	1.9	1.6	
		20	2.2	1.9	
	600	10	2.0	1.7	
		20	2.5	2.0	
	800	5	1.8	1.6	
		10	2.2	1.9	
LED	260	10	1.7	1.4	
		20	2.0	1.7	
	900	5	1.7	1.5	
		10	2.0	1.8	
	Plasma Arc	950	3	1.9	1.5

1) Increment depth was determined on the basis of test results performed in accordance with section 7.10 "depth of cure" of ISO4049.

SPECIAL NOTES FOR THE USE OF PLT

- PLTs are designed for single patient use only. Do not re-cap and/or re-use the PLT tip once material has been dispensed for that patient.
- Dispensers are not provided for ESTELITE Σ QUICK. Use a dispenser that fits the PLT of ESTELITE Σ QUICK. For proper use and proper disinfection, see manufacturer's instructions.
- Apply the composite at normal room temperature (18 - 30°C / 62 - 84°F). Material that is too cold might be difficult to extrude.
- Use light, controlled pressure to prevent any continued extrusion of material following pressure release.

STORAGE

- Store ESTELITE Σ QUICK at a temperature between 0 - 25°C (32 - 77°F).
- AVOID direct exposure to light and heat.
- DO NOT use ESTELITE Σ QUICK after the indicated date of expiration on the syringe or PLT package.

DISPOSAL

To safely dispose of excess ESTELITE Σ QUICK, extrude unused portion from SYRINGE or PLT and light-cure before disposal.

CLINICAL PROCEDURE

- Cleaning**
Thoroughly clean the tooth surface with a rubber cup and a fluoride-free paste then rinse with water.
- Shade Selection**
Select the appropriate shade of ESTELITE Σ QUICK prior to placing the rubber dam using the shade guide provided for ESTELITE Σ QUICK.
- Complete the shade selection within 5 minutes; desiccated teeth are lighter than wet or moist teeth.
- Lightness (color value) is primary importance on shade selection.
- When wavering in shade selection, select the lighter (high value) shade.
- In case of whitened teeth select the shade a few weeks after the completion of whitening. Whitened teeth may become slight darker.
- Isolation**
A rubber dam is the preferred method to isolate the tooth from contamination.
- Cavity Preparation**
Prepare the cavity and rinse with water. Add bevels to the enamel margins of anterior preparations (class III, IV, V), as well as chamfers to the margins of posterior preparations (class I, II) because bevells and chamfers assist in erasing demarcations between the cavity margins and restoration, thereby enhancing both esthetics and retention.
- Scalloped (undulain) bevel could be desirable depending on the esthetics and retention.
- In case of porcelain/composite repairs, roughen the surface with a bur or a diamond point to prepare the area for adhesion; apply phosphoric acid etch for cleaning; rinse thoroughly with water; air dry thoroughly and treat with a si-lane coupling agent according to manufacturer's instructions.

5. Pulp Protection

Glass ionomer lining or calcium hydroxide should be applied if the cavity is in close proximity to the pulp. DO NOT use EUGENOL BASED MATERIALS to protect the pulp as these materials will inhibit curing of bonding agent and/or ESTELITE Σ QUICK.

- Apply a bonding system according to its manufacturer's instructions.
- If you want to use self-cured or dual-cured bonding systems, please confirm that such bonding systems are compatible with the light-cured composite resins being used.

7. Dispensing

- PLT
 - Please read ■SPECIAL NOTES FOR THE USE OF PLT before use.
 - Load the PLT into a dispenser that fits the PLT.
 - Remove the PLT cap.
 - Extrude the paste directly into cavity or indirectly on the mixing pad.

7-2. SYRINGE

- Remove the syringe cap. Extrude the paste onto a mixing pad by turning the handle clockwise. Re-cap the syringe immediately after dispensing.
- DO NOT apply unnecessary force to the syringe immediately after removing from the refrigerator.

8. Filling and contouring

Fill the cavity incrementally. Increments should not exceed the indicated depth (please refer to the aforementioned table).
- DO NOT mix ESTELITE Σ QUICK with other brands of resin composite or other shades of ESTELITE Σ QUICK to avoid incomplete cure or voids.

9. Curing

- Light-cure each increment for at least the indicated time (please see aforementioned table), keeping the curing light tip within a distance of 2 mm from the increment.
- If other brands of composite resins are layered over the cured composite, follow their instructions.

10. Finishing

Shape and polish the restoration. For finishing, use fine finishing diamond points. To create the separation between the composite and the natural tooth rotate a 12 fluted carbide bur slowly along the margins without water. Use finishing metal strips or vinyl strips for proximal surfaces. For polishing, finish with rubber points or any suitable polishing tool, such as PoGo[®](DENTSPLY/Cauk), SoF-Lex[™](3M ESPE), Identoflex[®] HiLuster Dia Polishers (Kerr), or D-FINE[™] Hybrid Diamond (COSMEDENT, Inc.).
* PoGo, SoF-Lex, Identoflex and D-FINE are not registered trademarks of Tokuyama Dental Corporation.

IMPORTANT NOTE: The manufacturer of ESTELITE Σ QUICK is not responsible for damage or injury caused by improper use of this product. It is the personal responsibility of the user to ensure that this product is suitable for an appropriate application before use.
Product specifications of ESTELITE Σ QUICK are subjected to change without notification. When the product specification change, the instruction and precautions may change also.

한국어
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사용 전 설명서, 주의사항 등을 읽어보십시오

■제품 설명과 이용안내

- ESTELITE Σ QUICK는 광중합용, 방사선불투과성이며 초 미세 복합필러로 구성되었고 모든 형태의 와동에서 사용 가능한 전 구치 결용 복합체로 제공됩니다. 1mm의 알루미나와 동일하게 그 이상인 방사선 불투과성을 가지며, ISO 4049에 따라 타입 2 및 클래스 3 소재로 분류됩니다. 실리카-지르코니아 필러와 복합 필러의 함유량은 무게의 82%(체적의 71%)로 이러한 높은 필러 함유량으로 인하여 중합 수축률을 줄일 수 있게 되었습니다. ESTELITE Σ QUICK 을 구상하는 모든 무기질 필러는 둥근형태의 초미세필러 (평균 입자크기: 0.2μm, 범위:0.1 - 0.3μm)이므로 포린 광택이 우수하고 마모저항성이 높습니다. 노모메 매트릭스의 성분은 Bis-GMA와 트리에틸렌 글리콜 디메타크릴레이트입니다.
- ESTELITE Σ QUICK는 Radical-Amplified Photopolymerization initiator (기화(RAP 기술)를 사용했습니다. 400 - 500nm의 파장 대역에서 (peak:470nm) 일반적인 복합 레진에 비해 광중합 조사 시간이 1/3로 줄어들 수 있습니다. 광조사 시간과 레진의 두께와의 관계에 대한 조사를 참조하십시오 (■필링과 광중합에 대한 지시사항 참조).
- RAP 기술로 인해 ESTELITE Σ QUICK을 조작할 수 있는 조작시간을 더 길게 할 수 있습니다.
- ESTELITE Σ QUICK은 시린지나 PLT(Pre Loaded Tip)의 두가지 형태로 제공됩니다.

■쉐이드

- A1, A2, A3, A3.5, A4, A5, B1, B2, B3, B4, C1, C2, C3, OA1, OA2, OA3, OPA2, BW(Bleach White), WE(White Enamel), CE(Clear Enamel/Incisal).
- 유백광 화이트(OA1, OA2, OA3)는 빛이 투과하여 복합레진 수복물이 어떻게 보이는 것을 차단하기에 충분한 불투명도를 가지도록 제작되었습니다(3급, 4급 와동의 수복물). 또한 유백광 화이트는 멀티 레이트 레이어링법으로 수복할 때 맨틴 레이어로 사용할 수 있습니다. OA1, OA2와 BW 레이트는 유지와 잘 어울립니다. 그러나 이러한 레이트는 금속이나 테트라스이클린 변색제와 등을 masking하도록 제작되지는 않았습니다.
- OPA2는 약간의 더러운층을 커버 하고 광택이 없는 이에

- 적합합니다. (3.4급 와동의 lingual cavity wall에서 얇은 층으로 사용)에 사용되도록 제작되었습니다.
- 헤이드의 더 많은 사용법은 지역 담당 회사에 문의하시기 바랍니다.

■적응증

- 전치부, 구치부의 모든 와동에서의 직접 충전
- 적접 접합 컴포지트 베니어
- 다이아스타마 플러저
- 포세린 / 컴퍼지트 리페어

■금기사항

ESTELITE Σ QUICK은 메타크릴 모노머를 함유하고 있습니다. 메타크릴과 이와 관계된 모노머에 과민증이 있는 환자에게 사용하지 마십시오.

■주의사항

- ESTELITE Σ QUICK를 여기에 열거된 것 이외의 목적으로 사용하지 마십시오.
- ESTELITE Σ QUICK의 판 메 및 사용은 치과용으로만 허가되어 있습니다.
- 만일 포장이 뜯겨 있거나, 부정하게 조작되어 있으면 사용하지 마십시오.
- 만일 ESTELITE Σ QUICK 에 알레르기 반응이나 과민증을 일으키면 즉시 사용을 중단하십시오.
- ESTELITE Σ QUICK을 다룰 때 메타크릴 모노머에 과민반응을 방지하기 위해 글로브(플라스틱, 비닐 또는 라텍스)를 사용하십시오. 주의: 글로브를 투과하는 물질이 있을 수 있습니다. 만일 ESTELITE Σ QUICK이 글로브를 투과하면, 글로브를 벗고 가능한 빨리 물로 완전히 손을 씻으십시오.
- ESTELITE Σ QUICK을 눈, 점막, 피부, 옷 등에 접촉시키지 마십시오.
 - 만일 ESTELITE Σ QUICK이 눈에 들어가면, 다량의 물로 씻은 후 즉시 안과 의사에게 가십시오.
 - 만일 ESTELITE Σ QUICK이 점막에 접촉되면, 즉시 닦아내고 물로 완전히 씻은 후에 충진을 시작하십시오.
 - 만일 ESTELITE Σ QUICK이 피부나 옷에 묻으면, 즉시 알코올을 묻힌 거즈로 적시십시오.
 - 치료가 끝난 즉시 환자로 하여금 입을 행구도록 하십시오.
- ESTELITE Σ QUICK을 먹거나, 흡입하지 마십시오. 심각한 손상을 초래할 수 있습니다.
- ESTELITE Σ QUICK을 부주의하게 먹지 않게 하기 위해서는, 환자나 어린이의 손이 닿지 않는 곳에 두십시오.
- 사용한 도구는 알코올로 닦으십시오.
- 광조사기를 사용할 때는, 눈 보호대 나 보호 안경 등을 착용하십시오.

■필링과 큐어링의 적응증

ESTELITE Σ QUICK을 구강 밖에서 광조사 해보아서 접착을 하기 전에 완전 경화가 일어나는 시간을 측정하십시오. 아래 표는 광중합 시간과 레진의 두께에 대한 상관관계를 보여줍니다.

레진 두께와 광조사 시간의 관계:

광조사기 형태	강도 (mW/cm ²)	광조사시간 (초)	레진의 두께 (mm) ¹⁾			
			A1, A2, A3, A3.5, B1, B2, B3, C1, C2, OA1, OA2, CE(incal), BW, WE	A4, A5, B4, C3, OA3, OPA2		
할로젠	400	10	1.9	1.6		
		20	2.2	1.9		
	600	10	2.0	1.7		
		20	2.5	2.0		
LED	800	5	1.8	1.6		
		10	2.2	1.9		
	260	10	1.7	1.4		
		5	2.0	1.7		
플라즈마 아크	950	3	2.0	1.8		
		10	2.3	1.9		

- 레진 두께는 ISO4049의 7.10 "치로심도" 부분에 따라 시행된 테스트 결과를 기초로 해서 나온 것입니다.

■PLT의 사용 시 주의사항

- PLT는 환자 한명당 일회용으로 만들어졌습니다. 환자에게 한번만 사용되었던 PLT 캔은 다시 사용하지 마십시오.
- 디스펜서는 제공되지 않습니다. ESTELITE Σ QUICK의 PLT에 맞는 디스펜서를 사용하십시오.
- 올바른 사용법과 소독법은 사용설명서를 참조하십시오.
- 정장적인 실온에서 (18~30℃/62~84℉) 사용하십시오. 너무 차면 찌꺼기 형을 수 있습니다.
- 내용물이 계속 나오지 않도록 적절한 힘으로 사용하십시오.

■저장

- ESTELITE Σ QUICK은 0-25℃(32~77℉)에서 저장하십시오.
- 적절한 빛과 열을 피하십시오.
- 유효기간이 지난 것을 사용하지 마십시오.

■폐기

여분의 ESTELITE Σ QUICK을 안전하게 폐기하기 위해서는 시린지나 PLT의 남은 부분을 찌서 폐기하기 전에 광중합 해주십시오.

■임상과정

- 세척
 - 리버칩과 무색 스페이스트로 치면을 완전히 세척하고 물로 행구십시오.
- 셰이트 선택
 - 리버칩을 하기 전에 ESTELITE Σ QUICK에서 제공한 셰이트 가이드를 이용해 셰이트를 선택하십시오.
 - 5분 안에 결정하십시오. 건조한 치아는 것은 차아보다 더 밝습니다.
 - 만일 셰이트 선택에서 첫 번째로 선택한 Bis-GMA와 트리에틸렌 글리콜 디메타크릴레이트입니다.
 - 셰이트 선택 시 두 개중에서 선택이 어려우면, 밝은 헤이드를 선택하십시오.
 - 미백한 치아는 미백처리가 끝난 후 몇 주가 지나서 셰이트 선택을 하십시오. 치아의 색이 약간 어두워질 수가 있습니다.

3.격리

리버칩이 추천됩니다.

4.와동 형성

와동 형성 후 물로 씻어내십시오. 전치부에서는 에나멜 마진에 베를을 형성하고(III급, IV급, V급 와동). 구치부에서는 둥근 홈을 형성하십시오(I급, II급 와동). 와동 변연과 수복물 사이에 경계를 없애서 심미와 접착력을 증진시키기 때문입니다.
-물결모양의 베벨이 심미와 유지 면에서 더 좋을 수 있습니다.
-포세린/컴퍼지트의 리페어 시에는 비나 다이아몬드 포인트로 접착할 부위를 거칠게 하고, 세척 목적으로 인산으로 깨끗이 한 후 물로 완전히 세척, 건조하고 실란 커플링제로 처리한다.

5.치수보정

만일 와동이 치수에 근접했다면 클래스 아이오노머 라이닝 이 갈수록 수축물로 보호한다. 유지층이 포함된 재료는 본진제와 ESTELITE Σ QUICK의 중합을 방해하므로 사용하지 마십시오.

6.본딩 시스템

- 제조사 지시사항에 따라 본딩 시스템을 적용하십시오.
- 자가 중합형 또는 이원 중합형 본딩 시스템을 사용하하면 이러한

본딩 시스템이 사용 되는 광중합 컴포지트 레진과 호환되는지 확인하십시오.

7. 디스펜싱

- PLT 타입

사용 전에 ■PLT사용 시 주의사항"을 읽으십시오.

- PLT를 맞는 디스펜서에 장착합니다.
- PLT 캔을 엽니다.
- 와동에 직접 찌 넣거나 픽싱 페드에 찌니다.

- 시린지 타입

시린지 뚜껑을 열고 손잡이를 시계방향으로 돌려 픽싱 페드에 포인트를 찌니다. 사용 후 즉시 뚜껑을 닫습니다.

- 냉각고에서 꺼낸 즉시 시린지에 불필요한 압력을 가하지 마십시오.

8. 필링과 큐어링

- 점층법으로 와동을 충전합니다. 정해진 두께를 초과하지 말아야 합니다(표 참조).
- ESTELITE Σ QUICK과 다 른 회 사 의 레 진 이 나 다 른 헤이드의ESTELITE Σ QUICK을 함께 사용하지 마십시오. 불완전한 광중합이나 기포형성을 방지하기 위함입니다.

9.광중합

- 레진의 두께에 맞는 광조사 시간 이상을 조사하십시오(표 참조). 광원 tip과 레진과의 거리는 2mm 보다 더 멀어지지 않게 하십시오.
- 만일 다른 제품의 복합 레진을 광중합된 레진 위에 사용하려면, 제조회사의 지시에 따르십시오.

10.마무리

수복물의 형태를 형성하고 폴리싱합니다. 마무리 작업 시에는 마무리용 다이아몬드 포인트를 사용하십시오. 레진과 자연치아 사이의 경계를 없애기 위해서는 12날의 카바이트 버를 지속적으로 물 뿌림 없이 변연에 따라 사용하십시오. 포크시탈 표면에는 메탈 스트림이나 비닐 스트림을 사용하여 마무리 할 수 있습니다. 폴리싱 시에는 러버 포인트를 사용하거나, 다른 적당한 폴리싱 기구를 사용하십시오. 에 클 뎀 PoGo[™](DENTSPLY/Cauk), SoF-Lex[™](3M-ESPE), Identoflex[®] HiLuster Dia Polishers (Kerr), 또는 D-FINE[™] Hybrid Diamond (COSMODENT,Inc).
* PoGo, SoF-Lex, Identoflex, D-FINE는 Tokuyama Dental corporation의 상표등록이 안되었습니다.

중요 주의사항: ESTELITE Σ QUICK의 제조회사는 이 제품을 부적절하게 사용해서 생긴 피해에 대해서는 책임이 없습니다. 사용자의 사용 전에 이 제품의 올바른 사용법을 숙지해야 합니다.

ESTELITE Σ QUICK의 제품 세목은 공지 없이 변경될 수 있습니다. 제품세목이 변경되면 지시사항과 주의사항이 같이 변할 수 있습니다.

ภาษาไทย

การอ่านข้อมูลทั้งหมดรวมทั้งข้อควรระวังและคำเตือนก่อนใช้ผลิตภัณฑ์

■คำอธิบายและข้อมูลทั่วไปเกี่ยวกับผลิตภัณฑ์

- ESTELITE Σ QUICK คือวัสดุเรซินคอมโพสิตชนิดอนุภาคเล็กกว่าไมครอนที่เตรียมขึ้นและมัตด้วยแสง สำหรับใช้บูรณะฟันหน้าและฟันหลังรวมทั้งฟันทุกประเภทที่เป็นข้อบกพร่องจากสาเหตุที่พบบ่อย สารนี้มีคุณสมบัติที่สัมพันธ์กับปริมาณค่าออกซิเจนที่ผสมผสานความหนา 1 มม.และจำนวนใบวัสดุประมาณ 2 และคลาส 3 ตาม ISO 4049 ESTELITE Σ QUICK ประกอบด้วยวัสดุชนิดเทอร์โมเซต ซิลิกา-เซอร์โคเนีย และวัสดุอนุแทรกคอมโพสิต 82% โดยน้ำหนัก (71% โดยปริมาตร) การบรรจุวัสดุประเภทนี้ในปริมาณมากทำให้สามารถขยายการหดตัวที่เกิดจากการฉายแสงได้ วัสดุชนิดเทอร์กอนไดโอนที่ทั้งหมดที่นำเสนอของ ESTELITE Σ QUICK เป็นวัสดุอนุแทรกที่ทรงกลมขนาดเล็กกว่าไมครอน (ขนาดอนุภาคเฉลี่ย 0.2 ไมครอน ขนาดขนาดของอนุภาคตั้งแต่ 0.1 ถึง 0.3 ไมครอน) ซึ่งการออกแบบวัสดุอนุแทรกที่ทรงกลมนี้จะส่งผลให้วัสดุสามารถรักษาความเป็นเงาที่ดีเยี่ยมได้ทั้งขณะและต่อการสึกกร่อน มีโมเมอร์แทรกซ์ประกอบด้วย Bis-GMA และไตรเอทิลีนไกลคอลไดเมทา คราคละ (triethylene glycol dimethacrylate)
- ESTELITE Σ QUICKใช้เทคโนโลยีการกระตุ้นการมัตด้วยแสงชนิดในแสงสุด Radical-Amplified Photopolymerization initiator technology (RAP technology) เป็นแสงโพลิไทเพอไลเซชันที่ใช้กับเทคโนโลยีชนิดของอนุภาคที่เล็กลงกว่า PLT ให้หมดแล้วฉายแสงออกทั้ง

- A1, A2, A3, A3.5, A4, A5, B1, B2, B3, B4, C1, C2, C3, OA1, OA2, OA3, OPA2, BW (Bleach White, สีฟันทooth Whitening), WE (White Enamel, สีขาวเงา) และ CE (Clear Enamel/Incisal, เล็กน้อยในสีฟันทooth Whitening)

- สีโอปาล (OA1, OA2, OA3) ถูกออกแบบไว้เพื่อมีความทึบแสงเพียงพอสำหรับปิดเงาเม็ดที่สะท้อนจากภายในช่องว่างจากการเตรียมการที่แบบที่ 3 และ 4 สีโอปาลยังสามารถใช้อปะฟันที่เป็ขึ้นเพื่อใช้ในการบูรณะด้วยเทคนิคการอุดเป็นชั้นๆ สี OA1, OA2 และ BW ยังใช้กับผิวที่เคียวกับฟันน้ำนม อย่างไรก็ตามสีโอปาลนั้นไม่ได้ออกแบบมาสำหรับใช้กับสีโอโธ หรือคราบสีฟัน ด้วยเช่นกัน ความลึกของยาเตรนที่ใสคือ OPA2 ถูกออกแบบสำหรับใช้กับคราบสีฟันหรือในการบูรณะฟันที่เห็นแสงสูง (ที่เป็นชั้นบางๆที่สีในโพรงฟัน) ตามลิ้นในการบูรณะฟัน แบบที่ 3 และ 4)
- กรุณาตรวจสอบสีที่มีให้เลือกใช้จากผู้จัดจำหน่ายในประเทศของท่าน

■ข้อบ่งใช้

- เพื่อบูรณะฟันหน้าและฟันหลัง รวมถึงบริเวณด้านบดเคี้ยวและรอยพุททุกประเภท
- เพื่ออำพรางฟันหน้าด้วยคอมโพสิต รีเนียร์
- เพื่ออุดข้อบกพร่องในเหงือก
- เพื่อซ่อมแซมรอยร้าวเส้นขอบฟันโอคัล

■ข้อห้ามใช้

ESTELITE Σ QUICK ประกอบด้วยเมทาคราซิลิกโมโนเมอร์ (methacrylic monomers) ดังนั้นจึงไม่ควรใช้กับวัสดุอุดฟันที่มีส่วนผสมของเรซินคอมโพสิตและโมโนเมอร์ที่เกี่ยวข้อง

■ข้อควรระวัง

- ไม่ควรใช้ ESTELITE Σ QUICK ในโพรงที่สะอาดเกินไปที่นอกเหนือไปจากการใช้งานที่ระบุไว้ในคำแนะนำฉบับนี้ ใช้ ESTELITE Σ QUICK ตามคำแนะนำที่ให้อไว้ในนี้เท่านั้น
- ESTELITE Σ QUICK ควรใช้กับวัสดุอุดฟันที่มีส่วนผสมของเรซินคอมโพสิตและโมโนเมอร์ที่เกี่ยวข้อง
- ไม่ควรใช้ ESTELITE Σ QUICK ถ้าพบว่าผลิตภัณฑ์เกิดความผิดปกติของผลิตภัณฑ์ขนาดหรือปรากฏร่องรอยจากการปลอมแปลง
- ถ้า ESTELITE Σ QUICK ก่อให้เกิดอาการแพ้หรือรู้สึกสัมผัสไมวมกับผลิตภัณฑ์เหล่านี้

- ขณะใช้ ESTELITE Σ QUICK ควรสวมถุงมือ (พลาสติก, ไนลีน หรือลวดลาย) เพื่อป้องกันการแพร่กระจายของสารเคมีที่อาจเกิดขึ้นได้ แต่เมทาคราซิลิกโมโนเมอร์ที่อาจเกิดขึ้นได้จากการอุดฟันหรือการใส่ฟันปลอมอาจอาจเข้ามาจนถึงได้ หากรู้สึกว่ามีกลิ่นผิดปกติ ESTELITE Σ QUICK ที่เข้ามาเข้ามาในโพรงอุดผลิตภัณฑ์ทั้งที่เนื้อใส่เข้ามาถึงเนื้อโอคัลโดยเจ้า วัสดุเหล่านี้จะหายไป
- ระวังอย่าให้ ESTELITE Σ QUICK เข้าตา, สัมผัสกับเนื้อเยื่อเยื่อ, ผิวหนัง และเยื่อเมือก
 - ถ้า ESTELITE Σ QUICK เข้าตา ให้ใช้น้ำล้างจนแล้วติดต่อกันจนแพทย์โดยเร็ว
 - ถ้า ESTELITE Σ QUICK สัมผัสกับเนื้อเยื่อเมือก ต้องเตรียมไว้เพื่อถูสารโพแทสเซียมไนเตรดและขูดด้วยน้ำ ให้หมดจดหลังเสร็จการบูรณะฟัน
 - ถ้า ESTELITE Σ QUICK สัมผัสผิวหนังหรือเยื่อเมือกแล้ว ให้ใช้สัหรือน้ำล้างออกจนแล้วออกซอลเสร็จบริเวณที่เปื้อนทันที และนำไปห้คนไข้สวมปากทันทีหลังใช้ผลิตภัณฑ์
- ต้องระวังไม่ให้มีการกลืนหรือสูดดม ESTELITE Σ QUICK เข้าไปในร่างกาย

固化時間與充填層厚度的關係：

光源類型	強度 (mW/cm ²)	固化時間 (秒鐘)	充填厚度 (mm) ¹⁾	
			A1, A2, A3, A3.5, B1, B2, B3, C1, C2, OA1, OA2, CE(Inc.), BW, WE	A4, A5, B4, C3, OA3, OPA2
鹵素	400	10	1.9	1.6
		20	2.2	1.9
		30	2.0	1.7
	600	20	2.5	2.0
		5	1.8	1.6
		10	2.2	1.9
LED	260	10	1.7	1.4
		20	2.0	1.7
		5	1.7	1.5
	900	10	2.0	1.8
電漿弧 (Plasma Arc)	950	3	1.9	1.5

1) 充填厚度是根據ISO4049，7.10章節「固化厚度」的測試結果所訂定。

■使用子彈型 PLT 時應特別注意事項

- 1) PLT僅供患者本人單次使用，該患者已用過的PLT請勿再次封存或使用。
- 2) ESTELITE Σ QUICK不 提 供 子 彈 型 PLT施 配 器，請 使 用 符 合 ESTELITE Σ QUICK之子彈型 PLT施配器。 其適當使用操作法及消毒法請詳閱製造商說明書。
- 3) 請在室溫（18-30 °C/62-84°F）下使用複合材。 材料在過冷的情況下將較難以擠出。
- 4) 使用時請小心謹慎控制好壓力，以防止在壓力解除後材料仍持續溢出。

■貯藏

- 1) 請將ESTELITE Σ QUICK貯藏於0-25°C(32-77°F)之間。
- 2) 避免光或熱源的直接曝曬。
- 3) 如已經超過注射器或PLT包裝上的指定有效期限，請勿再使用該 ESTELITE Σ QUICK。

■廢棄處理

請在廢棄前擠出注射器或PLT中未使用的部份並進行光固化，以安全處理剩餘的ESTELITE Σ QUICK。

■臨床操作程序

1. 患部潔淨

請以橡皮潔牙杯和不含氣的潔牙膏徹底潔淨牙齒表面後用清水沖洗。

2. 顏色選擇

請在放置患部橡膠隔絕布之前，按ESTELITE Σ QUICK專用比色板，選擇合適的ESTELITE Σ QUICK色。

- 請在5分鐘內完成顏色選擇。 乾燥的牙齒看來會比微濕或濕潤的牙齒色淺。
- 亮度(色彩明度)在選擇顏色時最為重要。
- 當您在齒色與材料顏色比對、選擇上有所猶疑時，請選擇較淺(色彩明度較高)的顏色。
- 處理漂白牙齒時，請在完成漂白的數週後才選擇齒色。 漂白牙齒有可能隨時間而變得亮度稍暗。

3. 隔離

建議使用橡膠隔絕布隔離牙齒。

4. 窩洞修形

將窩洞修形並以清水洗滌。 前牙(class III、IV、V)建議施以牙釉緣斜面修形(bevels)，後牙(class I、II)施以弧形緣修形(chamfers)。因為斜面(bevels)和弧形(chamfers)有助於消除洞邊緣與復形部位間的分界，而增加美觀和固定性。

- 視 美 觀 和 固 定 性 需 要， 也 可 施 以 波 狀 斜 面 修 形 (undulant, scalloped bevels)。
- 進行瓷牙/複合樹脂修復時，需以bur或鑽針車粗表面以形成有效黏著面。以磷酸微酸蝕清潔後，用清水徹底洗滌並徹底風乾，再根據廠商說明書以矽烷偶劑處理。

5. 齒髓保護

如窩洞非常接近齒髓，應使用玻璃離子襯底材或氫氧化鈣保護齒髓。 請勿使用丁香酚基質材料保護齒髓，因為這類材料有可能抑制黏著劑或ESTELITE Σ QUICK的光固化。

6. 黏著系統

請依製造商指示採用適當之黏著系統。

- 欲使用自聚合或雙聚合黏著系統時，請確認其與所使用之光聚合複合樹脂的相容性。

7. 材料施配

7-1. 子彈型PLT

使用前請參閱使用PLT時的特別注意事項。

- 將PLT裝入適合PLT的施配器。
- 打開PLT封蓋。
- 直接將材料施配入窩洞或是間接擠到調板。

7-2. 注射器型

打開注射器封蓋，順時鐘轉動握柄將材料擠入調板。 使用後立即蓋上注射器封蓋。

- 從冷藏庫取出後，請勿立即對注射器施加不必要的力量。

8. 填補和成形

以分層堆填的方式填補窩洞。各層充填不應超過指定的厚度(請參照前表)。

- 請勿將ESTELITE Σ QUICK與其它品牌的複合樹脂或是其它顏色的ESTELITE Σ QUICK混合，以免產生不完全固化或空隙。

9. 固化

對每一充填層至少應施以依指示所定之光固化時間(請參閱前表)，每次光固化時光固化裝置先端與未固化充填層的距離應維持在2 mm以內。

- 如其它品牌的複合樹脂層疊於已固化複合材之上時，請按照它們的說明書操作。

10. 磨整

修整並磨光復形部位。 請使用fine的修整鑽針進行修整。 為消除複合材與天然齒之間的分界，請選用12刀槽之碳鋼鑽針(12 fluted carbide bur)，沿著邊緣慢慢輕力修磨，不加水。 使用金屬或乙二烯磨鏈片(strips)進行齒間鄰接面的修整。 使用rubber point或其它適合的拋光工具，例如 PoGo™ (DENTSPLY/Caulk), Sof-Lex™ (3M ESPE), Identoflex® HiLuster Dia Polishers (Kerr)或 是 D-FINE™ Hybrid Diamond (COSMEDENT, Inc.)進行拋光。

* PoGo, Sof-Lex, Identoflex 以及 D-FINE 不是Tokuyama Dental Corporation的註冊商標。

重要備註：ESTELITE Σ QUICK製造商不對因不恰當使用本產品所造成的任何損害或損傷負責。用戶有責任在使用前確認該產品是否適用。

ESTELITE Σ QUICK的產品規格有可能未經告示即行更改。當產品規格有所變更時，本說明書及注意事項也有可能隨之變動。

型號及規格

ESTELITE Σ QUICK Syringe

Content: 2mL (3.8g)

顏 色：A1, A2, A3, A3.5, A4, A5, B1, B2, B3, B4, C1, C2, C3, OA1, OA2, OA3, OPA2, BW, WE, CE

ESTELITE Σ QUICK PLT

Content: 0.2 g x 20 per Box

顏 色：A1, A2, A3, A3.5, A4, A5, B1, B2, B3, B4, C1, C2, C3, OA1, OA2, OA3, OPA2, BW, WE, CE

製造業者名稱：Tokuyama Dental Corporation Kashima Factory

製造業者地址：26, Sunayama, Kamisu-shi, Ibaraki 314-0255, Japan

醫療器材商名稱：傑基興業股份有限公司

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