

Star Fill 2B Instructions 89122-00 Rev B

Instructions

StarFill 2B™ was specifically developed for the directed shrinkage technique of posterior composite placement. It is a dentin shaded, radiopaque, fluoride releasing, dual cured, strong, flowable, microhybrid composite. In addition to the directed shrinkage technique, it has many other uses such as bonding of posts and core buildups.

Directed Shrinkage Technique for Posterior Composites

StarFill 2B™ is ideal for the “Directed Shrinkage” technique^{1,2,3} for composite placement first described by Bertolotti¹.

1. Cut conservative prep, using Caries Finder™ as a guide. (Let G. V. Black rest in peace; use no tooth-destroying principles!)
2. Etch enamel and dentin for 15 to 30 seconds with a liquid phosphoric acid etchant, such as Danville’s Star Etch™.
3. A highly recommended optional step to reduce sensitivity is to apply Danville’s MicroPrime™ for 30 seconds (minimum) penetration time.
4. Follow manufacturer’s instructions on wet or dry field for the bonding agent being used. Use of a dual cure bonding agent is highly recommended. Follow manufacturer’s directions concerning application of the bonding agent and drying of its solvent.
5. Light cure the bonding agent.
6. Mix equal portions of the StarFill 2B base and catalyst. Place the StarFill 2B using a Centrix needle tip or similar syringe tip. Allow to self cure for approximately 3 minutes. (To achieve directed shrinkage effect, the minimum depth is a Dycal-like layer which includes the gingival margin.) **After** the StarFill 2B polymerizes in the self cure mode, light cure it.
- 7a Place a light cure posterior composite and cure. (There is no need for bonding agent between the StarFill 2B and the overlying composite.)

OR

- 7b A bite form technique may be used to form the composite. Place the composite, remove the bitine ring, apply glycerine gel (such as Danville’s Liquid Lens™) on the occlusal and have the patient bite into centric occlusion. Cure the composite while patient’s mouth is closed. Have the patient open and cure again.
8. Remove the matrix.
9. Finish and polish.

STORAGE

The shelf life is 3 years when stored at 77°F (25°C). Cool storage prolongs shelf life.

ADDITIONAL NOTES

- Do not store the composite material in proximity of eugenol-containing products, nor let the composite come into contact with materials containing eugenol. Eugenol can impair the hardening of the composite and cause discoloration.
- Contact of resin pastes with skin should be avoided, especially by anyone having known resin allergies.

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

Company: Danville Materials
2021 Omega Road
San Ramon, CA 94583
Phone: (800) 822-9294
Fax: (510) 838-0944
Prepared: January 16, 1998

SECTION II - HAZARDOUS INGREDIENTS OF MIXTURES

Material	% WGT	OSHA PEL	ACGIH TLV
Barium Glass	45-65%	15	10
BIS GMA	15-45	N/L	N/L

SECTION III - PHYSICAL DATA

Vapor Pressure mm HG: ND
Evaporation Rate (Ether = 1): NA
Solubility in Water: Insoluble
Appearance: Tooth-shaded Resin Paste
Odor: Slight

SECTION IV - FIRE AND EXPLOSION

Flash Point: >+104°C
Extinguishing Media: Carbon Dioxide, Foam, Dry Chemical
Special Fire Fighting Procedures: None
Flammable Limits: ND
Unusual Fire and Explosion Hazards: None

SECTION V - REACTIVITY DATA

Stability: Stable
Conditions to Avoid: Prolonged extreme heat beyond 40°C and intense light.
Incompatibility: ND
Hazardous Decomposition Products: None known.
Hazardous Polymerization: None

SECTION VI - HEALTH HAZARDS

OSHA Permissible Exposure Limits: None
Other Exposure Limit Used: None
ACGIH Threshold Exposure Limit: None
Chronic, Other: None

Acute Overexposure: Irritation to eyes and skin may occur with uncured resins. May cause skin sensitivity in select individuals.

Medical Conditions Generally Aggravated by Exposure: None Known

Hygienic Practices: None

Primary Route(s) of Exposure: Skin - Yes. Inhalation and Ingestion - No.

SECTION VII - EMERGENCY AND FIRST AID PROCEDURES

Signs of Exposure: Severe skin or eye irritation, redness or burning sensation.

Skin: Wash off affected area with soap and water.

Ingestion: Seek immediate medical advice, carry container with label.

Eyes: Rinse immediately with plenty of water and seek medical advice.

SECTION VIII - SAFE HANDLING AND USE PRECAUTIONS

Spill Management: Use absorbent to collect the material. Wash contaminated surfaces with soap and water.

Waste Disposal Methods: This material contains hazardous constituents. Dispose of safely in accordance with local, state and federal regulations. Avoid temperatures in excess of 40°C.

SECTION IX - PROTECTION INFORMATION/CONTROL MEASURES

Respiratory: None

Eye Protection: Safety goggles

Glove: Surgical rubber/PVC gloves

Other Clothing & Equipment: Face mask

Ventilation: None required, local exhaust recommended.

¹Bertolotti RL. *PP&A Aesthetic Chronicle* 1991; 3:53-58.

²Ferrari M. *PP&A Aesthetic Chronicle* 1993; 5:29-36.

³Garberoglio R. et al. *Am J Dent* 1995; 8:303-307.