

Bisco

SELECT HV™ ETCH

35% High Viscosity Phosphoric Etchant

SELECT HV™ ETCH (35%) C€0459

SELECT HV™ ETCH (35%) w/BAC

Instructions for Use and Material Safety Data Sheet (MSDS)



Bringing Science to
the *Art* of Dentistry™

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CAUTION: U.S. Federal law restricts this device to sale by or on the order of a licensed Dentist.

SELECT HV™* ETCH **35% High Viscosity Phosphoric Etchant**

GENERAL INFORMATION

BISCO's new **SELECT HV ETCH** allows for precise selective placement. This etchant provides flowability, yet is just viscous enough to prevent migration. Selective etching provides a deep phosphoric acid etch on the enamel margins while maintaining the benefits of your self-etch adhesive, such as low postoperative sensitivity and moisture tolerance on dentin. The selective or preferential etch technique could provide a more aesthetic restoration at the enamel margins. The visually brilliant coloring of this new line of etchants also makes this phosphoric acid ideal for everyday etching where deep color differentiation is important.

BISCO's **SELECT HV** etchants are phosphoric acid (H_3PO_4), intended for use on enamel, dentin, and as a cleaning agent for restorative substrates. **SELECT HV ETCH** will effectively remove the smear layer, etch and demineralize enamel and dentin, producing the necessary microretentive surface for successful bonding. The etchant rinses away cleanly and quickly, leaving no residue. **SELECT HV ETCH** is also available with benzalkonium chloride (BAC), an antimicrobial agent. Research confirms the development of residual bacterial inhibition zones of up to 7mm, when challenged (in-vitro) with actinomyces viscosus¹.

NOTE: The inclusion of benzalkonium chloride has not been shown to correlate with a reduction in secondary decay in patients. In-vivo clinical studies to evaluate the effects of benzalkonium chloride on oral bacteria or caries have not been performed.

SELECT HV ETCH with BAC: Blue in color

SELECT HV ETCH: Green in color

Indications For Use:

1. Etching dentin and enamel
2. Selective enamel etching
3. Cleaning agent on dental restorative materials

* SELECT HV is a registered trademark of BISCO, Inc.

¹ Chan, D.C. N., Lo, W. W. Residual Antimicrobial Action of Benzalkonium Chloride Containing Etchant. J Dent Res 1994; 73(IADR Abstract):P226; AbstrNo 995.

Warnings:

- The phosphoric acid in the etchant is a severe eye and skin irritant. Injury may result if the etchant is allowed to remain on the skin or mucosa for extended periods of time. In case of contact with other tissues, rinse immediately with plenty of water for several minutes.
- If accidentally splashed into the eye, flush with copious amounts of water and seek medical attention immediately.
- Refer to product MSDS for additional warnings.

Cautions:

- Product may contain items that are designed for one time use. Do not clean, disinfect or reuse.

Precautions:

- Keep away from direct sunlight. Prolonged exposure to sunlight could cause a discoloration of the etchant; this will not compromise the efficacy of the product.
- Test the application of Etchant on a mixing pad or a glass slab, BEFORE use on patients so as to become familiar with the pressure required to dispense the Etchant from the tip. Never use intraorally before checking flow from tip. Never use force on plunger to start flow intraorally; this could result in a subsequent uncontrolled discharge of material. If resistance to flow is experienced, DO NOT proceed. Replace with new tip and verify flow before use on patient.
- Prophylactic pastes containing oil or fluoride should not be used as these additives may interfere with etching.
- See individual component labels for specific expiration dates.

SELECT HV 40ML BULK SYRINGE

Precautions:

40ml bulk syringe

- Properly connect and secure the bulk syringe to the refill syringe. System must be fully engaged prior to extruding material.
- Do not apply force to connect the two systems as it could result in breakage of either syringe connecting luer.
- Do not apply force to the back of the piston while syringe is capped, has refill attached or is without tip or syringe.
 - a. If capped or has refill attached, material may spurt back around piston, filling space between piston and barrel wall or extrude out the back end of the syringe.
 - b. If bulk syringe is neither capped nor has attached refillsyringe, material may burst out from tip from syringe.
- Recap bulk syringe while not in use to keep material from drying and gently place back into box. Do not forcefully place syringe down with tip in the air as material may extrude.
- Do not transfer material back and forth between bulk and refill syringe as it may cause air pockets and possible cross-contamination.

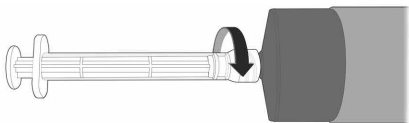
NOTE: Be sure to observe the 40ml bulk syringe.

1. Material may be contained between the piston and wall of barrel. Product is still in workable condition.
2. If observed that material does not extrude into refill syringe, secure refill syringe onto bulk syringe system and gently pull back to suction the air from the bulk syringe. Disengage refill syringe, and release air. Repeat as necessary until material begins to extrude into refill syringe.

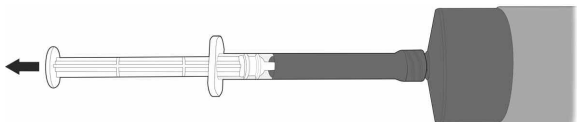
NOTE: Be sure to observe the Refill Syringe.

1. Refill syringe plunger may pop out back if pulled too quickly. Gently pull back on refill syringe plunger to extrude material.
2. Connect dispensing tip securely, which may otherwise result in leakage or excess spattering.
3. Single use only. Otherwise may result in cross-contamination. Discard after use.

1. If using Select HV Etch 40ml bulk syringe system, proceed as follows:
 - a. Attach the pre-labeled unit dose (1.2ml) syringe to the end of the bulk syringe by turning the luer lock to the unit dose syringe tightly on to the male thread of the bulk syringe system syringe.



- b. Once connection is secure, pull the 1.2ml syringe plunger back slowly to intake material to the desired amount.



- c. Promptly replace cap back onto the 40ml syringe.
 - d. If loaded syringe is not to be used immediately, replace the lock cap.
 - e. When ready for use, remove the cap and twist to attach the light blue 25 gauge tip. Dispense as indicated.

INSTRUCTIONS FOR USE

1 Etching dentin and enamel

2 Selective enamel etching

1. Remove white cap from etchant syringe.
2. Attach the light blue 25 gauge tip.
3. Verify flow of etch before intraoral application. Dispense a small portion of gel onto a pad or gauze to familiarize yourself with its viscosity.
4. If surface to be etched is not freshly cut, clean with a pumice-water slurry. Prophyl pastes containing oil or fluoride should not be used as these additives may interfere with etching. Rinse well.
5. Isolate: Rubber dam is the preferred method of isolation.
6. Extrude etchant directly onto the surfaces to be etched. Leave etchant in place for 15 seconds.

7. Thoroughly rinse for 5 seconds with suction. If selectively etching enamel, suction prior to rinsing to avoid etchant flowing on to dentin.
8. Immediately proceed with the bonding procedure.
9. Discard all single use components.

3 Cleaning agent on dental restorative materials

1. **SELECT HV ETCH** may be used on restorative substrates to effectively remove organic contaminants. Apply etchant to the surface for 30 seconds and rinse thoroughly with water.

NOTE: Bisco recommends priming the substrate with PORCELAIN PRIMER*, BIS-SILANE™* or Z-PRIME™* Plus prior to try-in and subsequent cleaning with phosphoric acid.

* BIS-SILANE and Z-PRIME are trademarks of BISCO, Inc.
PORCELAIN PRIMER is manufactured at BISCO, Inc.

STORAGE: Store at room temperature (20°C/68°F - 25°C/77°F). Store away from direct sunlight.

WARRANTY: BISCO, Inc. recognizes its responsibility to replace products if proven to be defective. BISCO, Inc. does not accept liability for any damages or loss, either direct or consequential, stemming from the use of or inability to use the products as described. Before using, it is the responsibility of the user to determine the suitability of the product for its intended use. The user assumes all risk and liability in connection therewith.

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