### Lineup

# Zero Flow Etchant

Controlled medical device; Dental etching material

### Phosphoric acid etchant suitable for selective etching





E: Etching C: Cleaning C C B \_ \*1 Resin containing inorganic fillers \*2 It cannot be used for pretreatment of sealant

### **Related Products**

## Multilatelent

Controlled medical device: Dental etching material (Adhesive material for dental ceramics)

Multi-use Etchant for Various Types of Materials and Tooth

Needle tip: 5pcs.

Single Package Multi Etchant (2mL) Accessory Needle tip: 10pcs.

## TMR AQUA BONDO

Controlled medical device - Dental Adhesive for Enamel and Dentine (Dental adhesive for ceramics) (Dental adhesive for metal)



A-Uno = E

Single Package

Single Package



A-UNO Universal Basic 4.0g (2mL)



Single Package

A-UNO Low Flow Basic 2.8g (1.5mL) Accessory. Needle Tip: 10 pcs.

-n-uno ---Single Package

A-UNO Flow Basic 2.8g (1.5mL)

Accessory. Needle Tip: 10 pcs.

A-UNO - State Single Package A-UNO Flow St Basic 2.8g (1.5mL)

AUNO HERE

Accessory. Needle Tip: 10 pcs.

Accessory. Needle Tip: 10 pcs.



A-UNO Universal St Basic 4.0g (2mL)





Single Package TMR-Z Fill10. Flow 2.6g (1.5mL) Accessory. Needle Tip: 10 pcs.

The actual color of the product, model and package may differ from the photographs due to printing ink and shooting conditions. Packages and containers are subject to change without prior notice

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TMR Z Fill 10. Controlled medical device - Resin-based Dental Restorative Material



Single Package TMR-Z Fill10, Universal 3.8g (2mL)



Single Package TMR-Z Fill10. Low Flow 2.6g (1.5mL) Accessory. Needle Tip: 10 pcs



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Pinpoint etching of Enamel Binpoint etching of Enamel Binpoint etching of Enamel Suffeldation SelectiveEtchific Zero Flow Etchant CO Flow Etchant 01234567

Controlled

Demineralization

Depth

**WAWARAN** 

ゼロフロ

Sufficient Roughening

**by**PhosphoricAcid

Controlled medical device: Dental etching material

# Zero Flow Etchant

# **Pinpoint etching of enamel**



## **Features of this product**

- 1. Easy to operate, staying in place without dripping
- 2. Quickly roughens the enamel and allows for enough operation time
- 3. Designed not to dissolve the tooth too much while achieving improved adhesion

A case of Class III cavity restoration (using a YAMAKIN's bonding material and A-UNO Low Flow Normal Type)









After forming a cavity

Application of Zero Flow Etchant

After rinsing and drying

After treatment

### A case of Class V cavity restoration (using a YAMAKIN's bonding material and A-UNO Low Flow Normal Type)









After forming a cavity

- Application of Zero Flow Etchant
- After rinsing and drying

After treatment

Photos provided by: Takeuchi Dental Clinic (Utazu-cho, Kagawa Prefecture, Japan): Dr. Kazutaka Takeuchi

#### Operation Procedure Please read the instructions for use for this product and the related materials before use.



Form a cavity



Apply Zero Flow Etchant to Ζ enamel and leave it for at least 15 seconds



**3** Rinse with water for at least 10 seconds seconds. \*Extend rinse time if necessary in case large amounts are applied.



Feature

## Sufficient roughening of enamel by phosphoric acid and enough operation time



60 seconds after discharged

(Vertical/0.5g)

60 seconds after discharged

(Horizontal)

Adhesive test using a YAMAKIN's bonding material



## Easy operation suitable for selective etching

It stays in place after application without dripping, making it suitable for pinpoint etching of enamel.

It roughens the tooth surface immediately and improves adherence property to the bonding material. Since the etching time has almost no effect on adherence property, the process can be performed with plenty of time to spare.

\*Please leave to stand for at least 15 seconds after applying.

**Before etching** 

After etching (15 seconds)





SEM image of enamel surface