Lineup

iGOS

Has both Fluoride Sustained Release and High Strength.

Resin-based Dental Restorative Material

Single Package iGOS Universal 4g (2 ml)

Single Package iGOS Flow 2.6g (1.5 ml)
Accessory: Needle Tip 10 pcs.

Single Package iGOS Low Flow 2.6g (1.5 ml)
Accessory: Needle Tip 10 pcs.

Shade Lineup

Product Name	Type	A1	A2	A3	A3.5	A4	A5	B1	B2	B3	C2	C3	D2	Others	Number of Shade	Content g (ml)
iGOS Universal	Dentine	●	●	●	●	●	●	●	●	●	●	●	●	•Bleaching White •Enamel	16	4g (2 ml)
	Opaque		●	●												
iGOS Flow	Dentine	●	●	●	●	●	●							•Bleaching White •Enamel	13	2.6g (1.5 ml)
	Opaque		●	●	●	●	●									
iGOS Low Flow	Dentine	●	●	●	●	●	●							•Bleaching White •Enamel	13	2.6g (1.5 ml)
	Opaque		●	●	●	●	●									

Set Package
·Starter Pack (Universal) ..... A2, A3, OA2, OA3, E, iGOS-BOND
·Starter Pack (Flow) ..... A2, A3, OA2, OA3, E, iGOS-BOND
·Starter Pack (Low Flow) ..... A2, A3, OA2, OA3, E, iGOS-BOND
·iGOS Universal Dentine 3pcs Pack (3pcs. of the Same Shade) A2, A3, A3.5
·iGOS Flow Dentine 3pcs Pack (3pcs. of the Same Shade) A2, A3, A3.5
·iGOS Low Flow Dentine 3pcs Pack (3pcs. of the Same Shade).... A2, A3, A3.5
·Repair Pack ..... iGOS-BOND, Multi Primer Liquid

Accessory Needle Tip: 20 pcs.

iGOS-BOND

Dental Adhesive

Dental Adhesive for Enamel and Dentine

Dental adhesive which achieves high adhesion inside the mouth under wet condition.

iGOS-Bond and Multi Primer Liquid are flammable.

Set Package iGOS-BOND (5 ml): 1 bottle
·Disposable Applicator Brush: 50 pcs.
·Disposable Plate: 25 pcs.

Set Package iGOS-BOND (5 ml): 2 bottles

Single Package iGOS-BOND (5 ml)

Accessory Disposable Applicator Brush: 50 pcs.
Disposable Plate: 50 pcs.

Related Products

Multi Primer

Bonding Material for Dental Metal
Bonding Material for Dental Ceramics
Bonding Material for Dental Resin

Bonding Composite Resin Material to metal, ceramic and cured resin for direct reparing.

Multi Primer LIQUID (7 ml)
For Metal and Ceramics

Applicable for								
Precious Metals		Non-precious Metals			Ceramics		Composite Resin	
Au Alloy	Au-Ag-Pd Alloy	Ti Ti Alloy	Ni-Cr Alloy	Co-Cr Alloy	Zirconia (ZrO_2)	Porcelain	Resin (Contains inorganic fillers)	Resin (Without inorganic fillers)
○	○	○	○	○	○	○	○	×

The original performance could not be exhibited depending on the cases.

The actual color of the product, model and package may differ from the photographs due to printing ink and shooting conditions.

YAMAKIN CO., LTD.
1090-3 Otani, Kamibun, Kagami-cho,
Konan-shi, Kochi, 781-5451 Japan
http://www.yamakin-global.com

Head Office: 3-7 Sanadayama-cho Tennoji-ku Osaka 543-0015, Japan
Branch Office: Tokyo, Osaka, Sendai, Nagoya, Fukuoka, JAPAN
Factory and R&D: Kochi, JAPAN
P: +81-887-55-0281 F: +81-887-55-0053
E: contact@yamakin-gold.co.jp

CE 0123
INTERNATIONAL20171030

YAMAKIN

YAMAKIN's Composite For Chairside Use !!

iGOS

Resin-based Dental Restorative Material

- Our Proven Filler Technology is Used
- Has both Fluoride Sustained Release and High Strength

iGOS-BOND

Dental Adhesive

- In-house developed Adhesive Monomer is Used
- Offers High Adhesion Properties

Actual colors may be different from ones in the photo.

iGOS

Has both Fluoride Sustained Release and High Strength

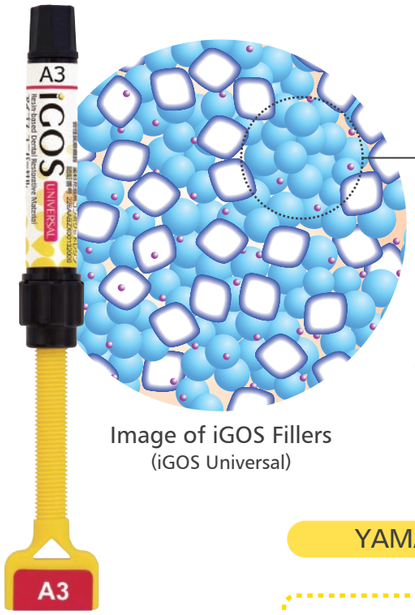


Image of iGOS Fillers
(iGOS Universal)

Methacrylic Acid Monomer

Ceramics Cluster Filler
(1-20 μm)

Submicron Filler
(SiO_2-ZrO_2-Al_2O_3: 200-600 nm)

Spherical Nano-Filler
(SiO_2: 20 nm)

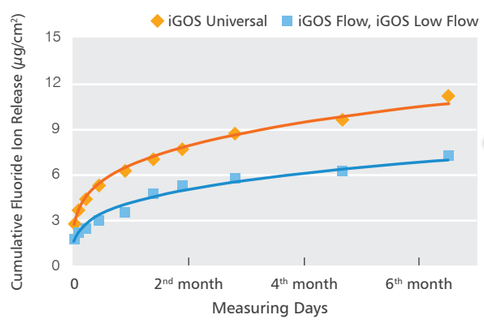
Fluoride Sustained Release Filler
(Glass: 700 nm)

In "iGOS Universal" the special filler is uniquely compounded with homogenized technology added to "Ceramics Cluster Fillers" patented technology achieved in the development of "TWiNY" hybrid indirect composite resin. Fluoride sustained release filler is also added, and it makes it possible to achieve both fluoride sustained release and high strength.

For "iGOS Flow" and "iGOS Low Flow" instead of compounding Ceramic Cluster Fillers, finer glass fillers (approx. 200nm) are used to adjust the fluidity.

YAMAKIN's Unique Filler Technology

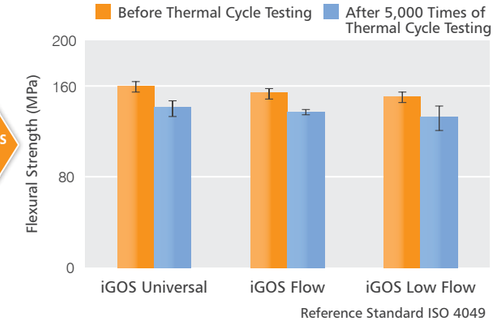
Fluoride Sustained Release



Both Functions Combined

iGOS Universal, iGOS Flow, and iGOS Low Flow continuously release fluoride ions inside the mouth, thanks to our unique filler technology. They also have the characteristic of recharging the fluoride ions contained in toothpaste.

High Strength



They maintain high flexural strength, even after thermal-cycle testing, and display exceptional durability.

Easy Handling

iGOS Universal

iGOS Flow | iGOS Low Flow

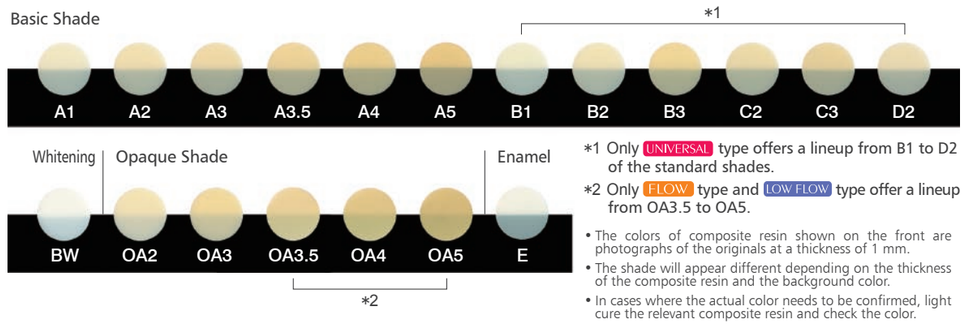
iGOS Universal is easily releasable from excavators, and its viscosity allows it to stretch smoothly.

This is the photograph of iGOS flowable type holding the mixing paper vertically for 60 seconds after discharged.

Outstanding Polishability

The micro fillers used in iGOS provide outstanding polishability, shortening the time needed for polishing.

Shade



*1 Only UNIVERSAL type offers a lineup from B1 to D2 of the standard shades.

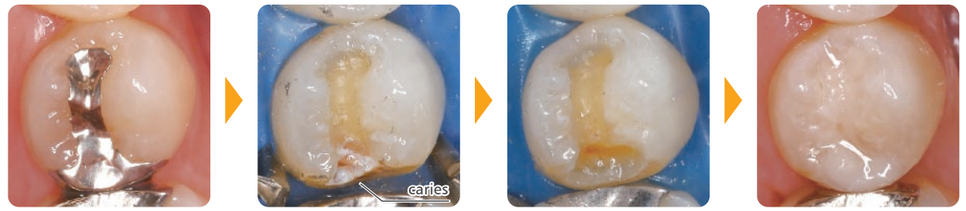
*2 Only FLOW type and LOW FLOW type offer a lineup from OA3.5 to OA5.

- The colors of composite resin shown on the front are photographs of the originals at a thickness of 1 mm.
- The shade will appear different depending on the thickness of the composite resin and the background color.
- In cases where the actual color needs to be confirmed, light cure the relevant composite resin and check the color.

iGOS has been designed to have a high degree of translucency, enabling the material to capture surrounding color by chameleon effect; therefore, it is easy to harmonize with natural teeth color.

Clinical Case

Contributed by Masahiro Uka (D.D.S.) , Uka Cardiovascular and Dental Clinic

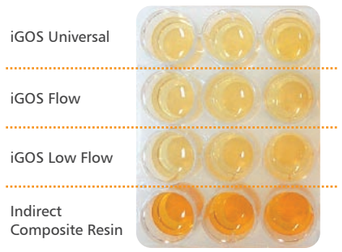


Before Treatment | Before Restoration | Cavity Preparation | After Treatment

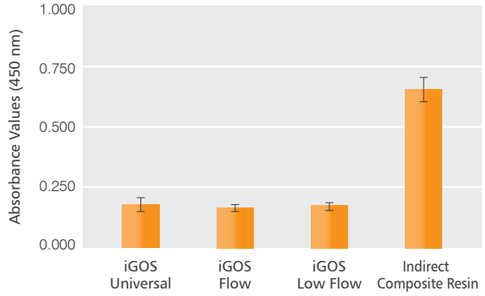
iGOS coheres to tooth substance and it prevents air bubbles from being mixed in during filling work.
Easy restoration is possible thanks to its excellent operability.

Used products: iGOS-BOND, iGOS FLOW and iGOS Universal

Bacteria Adhesion Preventing Test



Picture of Test Liquid of Bacteria Adherence Test



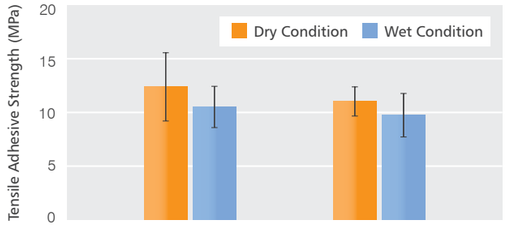
This demonstrates that the fainter the color in the photograph is, and the lower the light absorbance, the less bacteria adherence there is. A count of *streptococcus mutans* bacteria cultivated on the test material shows that the amount of adhering bacteria is small, since the orange color generated on iGOS by the bacteria is exceptionally faint, and light absorbency is low.
Moreover, Yamakin has carried out a wide range of safety evaluations on cells under simulated oral conditions, in collaboration with the Department of Oral and Maxillofacial Surgery, Kochi Medical School, Kochi University.

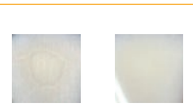
iGOS-BOND

Has both High Adhesion and Adhesive Properties Minimally Affected by Intraoral Conditions

iGOS-BOND has adhesive monomer in-house developed by our own technology, and it has succeeded in achieving high adhesion on both enamel and dentine.
Furthermore, the finely controlled compounding ration of the components and the effects of the in-house developed monomer make it possible to apply evenly without separating the liquid even under wet conditions. Of course, even after air-blowing, no separation of active ingredient will occur.

High Adhesion under Wet Conditions



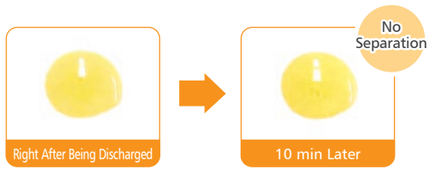


Dry Condition: After air-blow
Wet Condition: After spraying water
Test Piece: Bovine teeth

(Reference: ISO/TS 11405)

The in-house developed adhesive monomer has the characteristic of dissolving in both water and oil and achieves high adhesion on both enamel and dentine of teeth even under wet conditions.

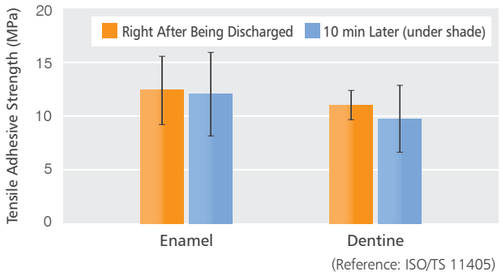
Excellent Application Property



*under shade at 25°C

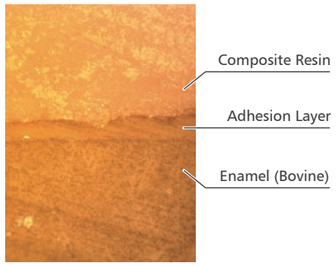
The finely controlled compounding ratio of the hydrophilic component and hydrophobic component, along with the effects of the in-house developed adhesive monomer, make it possible to apply the component evenly without separating the liquid. It can be used for 10 minutes* after being discharged.

*under shade at 25°C



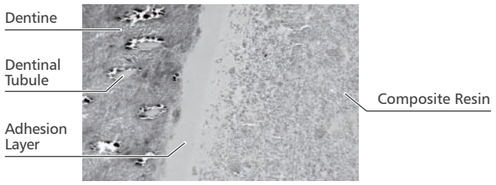
(Reference: ISO/TS 11405)

Microscope Observation of Adhesion Interface



Dense adhesion layer is created.

TEM Observation of Adhesion Interface



Provided by: Noriyuki Nagaoka, Dr. Sc. (Okayama Univ.)
Kumiko Yoshihara, DDS, PhD. (Okayama Univ.)

Adhesive material is performed decalcification in low irritative condition in order to bond composite resin to dentine/enamel.

Simple Steps

Filling restoration with composite resin cured by light

1 Application

Apply iGOS-BOND on whole inside of dried cavity and leave for 20 sec.

2 Air-blowing

Perform air-blowing sufficiently with a vacuuming device until the liquid surface doesn't move for 5 sec. or more with strong pressure.

3 Light Curing

Light cure with a dental light curing unit with light intensity of 300 mW/cm² or over for 10 sec. or more.

Repairing fracture or wear of crown restorations made of alloys, zirconia ceramics, dental porcelain, or resin material containing inorganic fillers.

1 Roughening, Washing and Drying of Adherend Surface

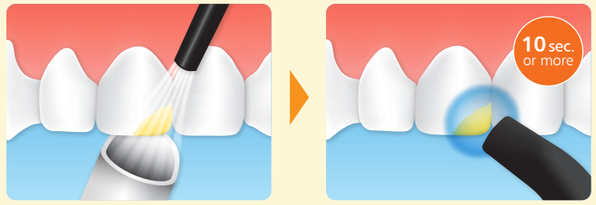
Roughen surface with a diamond point, then wash with water and dry.

2 Applying Multi Primer Liquid and Drying

After washing and drying, apply Multi Primer Liquid immediately and air-blow.

3 Applying iGOS-BOND

Apply iGOS-BOND thoroughly to the entire adherend surface and leave it for 20 sec.



4 Air-blowing

Perform air-blowing sufficiently with a vacuuming device until the liquid surface doesn't move approximately 5 sec. or more with strong pressure.

5 Light Curing

Light cure with a dental light curing unit with light intensity of 300 mW/cm² or over for 10 sec. or more.