Luna-Wing

C&B Hybrid Composite Resin

YAMAKIN

Creating Value – the future in our sights

YAMAKIN

Luna-Wing will change your way of thinking about composite resin.
This C&B composite resin is just a pleasure to work with.
Of course, Luna-Wing isn't only a pleasure to work with; it's also a product of the most outstanding quality.

Made by Shigeru Matsuda, Dental Inc., Fukui Prefecture, Japan.
Winner of the First Prize in the Technical Competition, General Freestyle Section of the 30th Meeting of the Nippon Academy of Dental Technology and the 4th International Congress of Dental Technology. This dragon is made using Luna-Wing.

Luna-Wing is just a pleasure to work with.

Luna-Wing

Luna-Wing is a light-cured indirect composite resin, developed using nano-technology as a basis, and exhibiting superior properties along with excellent workability, as well as fabulous aesthetics with a variety of color products. Luna-Wing makes it possible to produce high-quality prostheses in a short working time.

Luna-Wing has been carefully examined under the heading of Biological Evaluation of Medical Devices, as stipulated under ISO 10993. In addition it has also been thoroughly examined through various safety tests based on cell, tissue and genetic technology.

For light-curing this product, use a dental light-curing machine equipped with a halogen lamp, xenon lamp, metal halide lamp or LED, with an effective wavelength of 400-500 nm.

Nano Technology and Biological Safety

Our approach to Safety

To create “safety” and “value”

As medical sophistication advances, the level of sophistication required in production, from research and development to manufacturing and shipping, is also increasing. YAMAKIN is strengthening relationships with external organizations and implementing world-class quality management, striving to provide safety and value.

Endocrine disruptors (environmental hormones) were excluded from Luna Wing that were raised as issues. In addition to performing an assessment based on the international standard ISO 10993 "Biological Safety and Biological Evaluation of Medical Devices", further tests based on cell, tissue, and genetic engineering have been performed as safety evaluation tests by us.

Tests based on ISO 10993	Additional tests by YAMAKIN
1. In Vitro Cytotoxicity test	1. Cell Growth Inhibition test
2. Systemic Toxicity test	2. DNA Synthesis test
3. Genotoxicity test	3. Apoptotic and Necrotic Cell Detection test
4. Oral Mucosa Irritation test	4. DNA Fragmentation test
5. Skin Sensitivity test	5. Protein Synthesis test

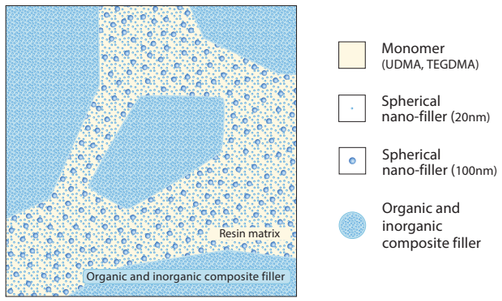
Nanofiller & Nano Technology

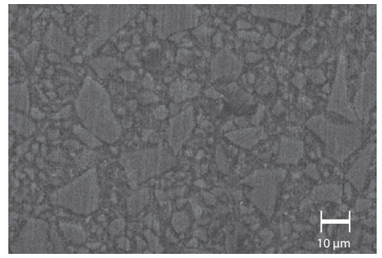
Nano-Technology is carried out on atoms and molecules at a scale of under 1 billionth of one meter.

Luna-Wing is an indirect composite resin exploiting the full potential of Nano-Technology, and has become one of the highest-density filler products on the market by using a mix of different-sized inorganic fillers. However, simply having the highest standard of filler material does not directly guarantee good quality. It is important to achieve a good balance between excellent physical properties and usability for technicians.

Luna-Wing not only fulfills the market’s major demands in terms of properties such as hardness, bending strength, and abrasion resistance at the level of most of other products in the market, but has also garnered high praise from many technicians for factors difficult to express in numeric values, such as forming, handling, polishing abradability, and color reproducibility.

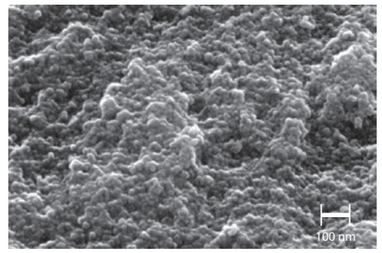
Image of Luna-Wing material structure





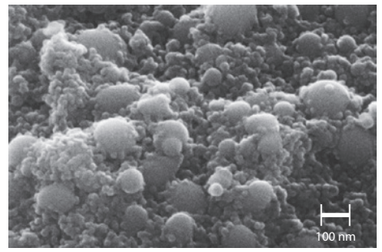
SEM photograph of Luna-Wing (×1000)

This picture shows that the organic composite filler is irregularly shaped and highly filled. At this magnification, no inorganic Nano filler can be confirmed.



SEM photograph of 100 m organic composite filler part (×100,000)

This picture shows that spherical Nano filler of about 20 nm is hybridized with high density and uniformity.



SEM photograph of 100 nm resin matrix part (x100,000)

This picture shows that spherical Nano fillers of approximately 20 nm and 100 nm are uniformly mixed.

Physical Properties

Superb Physical Properties

The physical properties of dental materials are a crucial concern.
Luna-Wing is designed with an outstanding balance of dimension of fillers, filling rate, and adhesive strength of resin matrix and fillers. As a result, Luna-Wing exhibits high Vickers hardness and flexural strength, which decreases wear and crack.

Abrasion Resistance for Everyday Comfort

Cleaning teeth is a basic part of everyday oral hygiene; the number of strokes a brush makes in brushing teeth can reach an amazing 30,000 times a year. Deteriorated prostheses affect not only aesthetic aspects but also the buildup of plaque.
Luna-Wing contains complex fillers, or organic fillers and inorganic fillers, at a high density. It exhibits good abrasion resistance and surface smoothness. All the inorganic nanofillers are spherical and minute, reducing the wear of the opposing teeth.

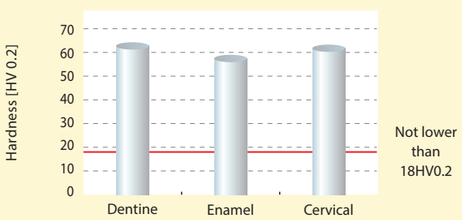
Water Sorption and Solubility

Water sorption and solubility causes stains, smells and deterioration of strength.
Luna-Wing exhibits much lower water sorption and solubility than the standard values stipulated in ISO 10477, which proves the safety of Luna-Wing in oral contexts.

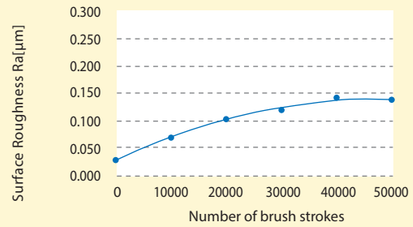
Extremely Low Shrinkage-Only 1.8%

Composite materials shrink while curing. This is referred to as polymerization shrinkage. This phenomenon cannot be avoided.
Shrinkage may cause cracks and deformations of connected teeth or bridges.
However, Luna-Wing exhibits only 1.8% shrinkage, making it possible to decrease cracks and deformations after technical work.
In addition, no major cracks are apparent after 5,000-cycle thermal testing (4 and 60 degrees Celsius). This proves that Luna-Wing is a reliable and highly beneficial material.

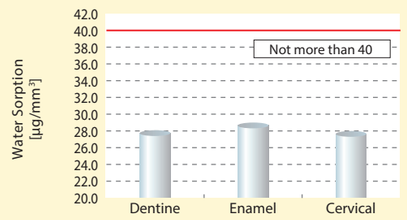
Vickers Hardness (ISO 4049)



Abrasion Resistance (ISO 14569-1)

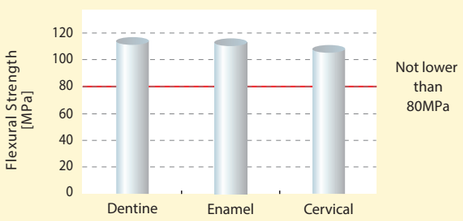


Water Sorption (ISO 10477)

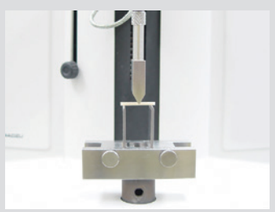


No Cracks after Thermal Testing in Hot and Cold Water over 5,000 cycles

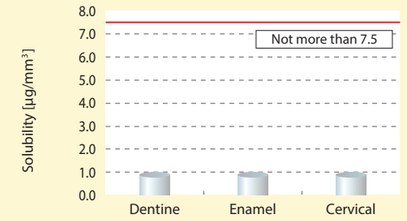
Flexural Strength (ISO 10477)



Flexural Strength Test



Solubility (ISO 10477)

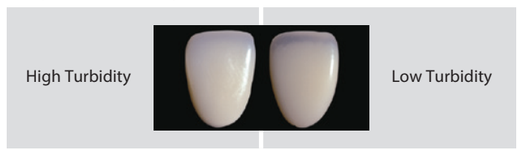


Extensive Color Variation

Turbidity Optically Stable

Many dental technicians have experienced the situation of making an artificial tooth, only to find that there is a visible line between the metal backing and the composite resin.
This is because natural light penetrates the incisal area and the metal frame becomes visible.
Luna-Wing exhibits natural transparency and optimal turbidity at the same time with naturally reflected light. Even where sufficient thickness of layer has not been secured, light scatters through the composite resin and conceals the metal line.

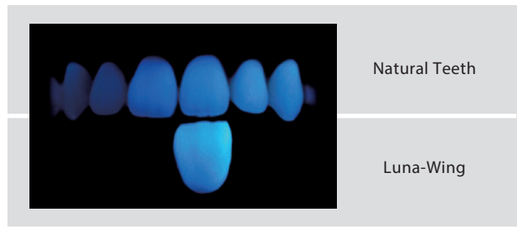
Comparison of turbidity



Natural Fluorescence

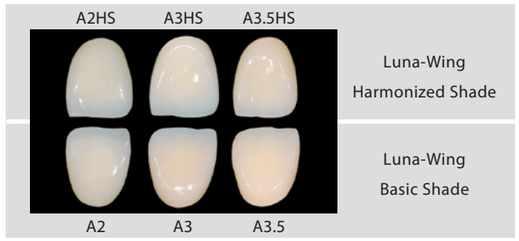
Natural teeth exhibit fluorescence, emitting ultraviolet light. Prostheses also need to exhibit the same characteristics. Luna-Wing is not simply given a generic form of fluorescence; rather, the fluorescence of natural teeth has been painstakingly achieved.

Fluorescence of Natural teeth (upper) and Luna-Wing (lower)



Harmonized Shade

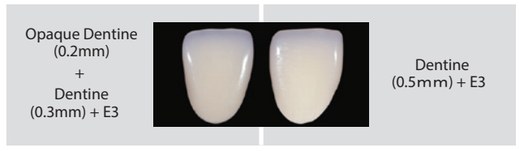
Luna-Wing is designed to match the most popular shade guide in current dentistry.
Harmonized shade is designed slightly toned down the redness of Luna-Wing basic shade.
Easy to use, even for first time users of Luna-Wing.
Hard type is also available for Enamel line-up.



Opaque Dentine

When the thickness of layering is not sufficient, an opaque color tends to be visible through Dentine, and reproduction of color tone is sometimes difficult. Luna-Wing has a range of Opaque Dentine which enables the required color tone to be expressed.

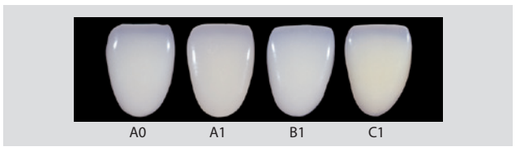
Example of Opaque Dentine



Whitening Shade

The desire to have white teeth like fashion models and sport athletes is a given today, and teeth whitening is now a matter of course, especially among younger women. Luna-Wing is already responding to this trend. The A0 Shade of Luna-Wing is whiter than the A1 shade of the most commonly used shade guide.

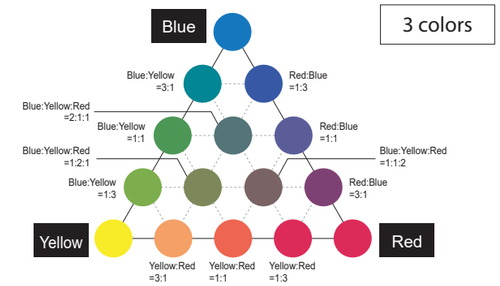
Luna-Wing's A0 Shade is whiter than found in the normal shade guide.

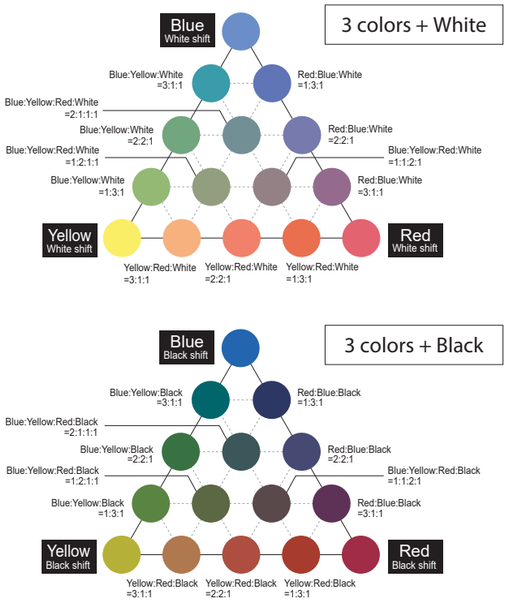


Line-up for Precise Characteristics

We have a great line-up of 9 Effect body resins to characterize colors such as discolored teeth. Our extensive range of Stain colors comes to a total of 21 colors, which are for internal use. The Stain product is of a paste type, while Stain Clear is a liquid type. Stain Clear can be used on its own and can also be mixed with other stains to adjust colors. The 3 of vivid Stain colors give you infinite possibilities to create new colors by mixing with other stains.

A variety of colors can be created from three basic colors.

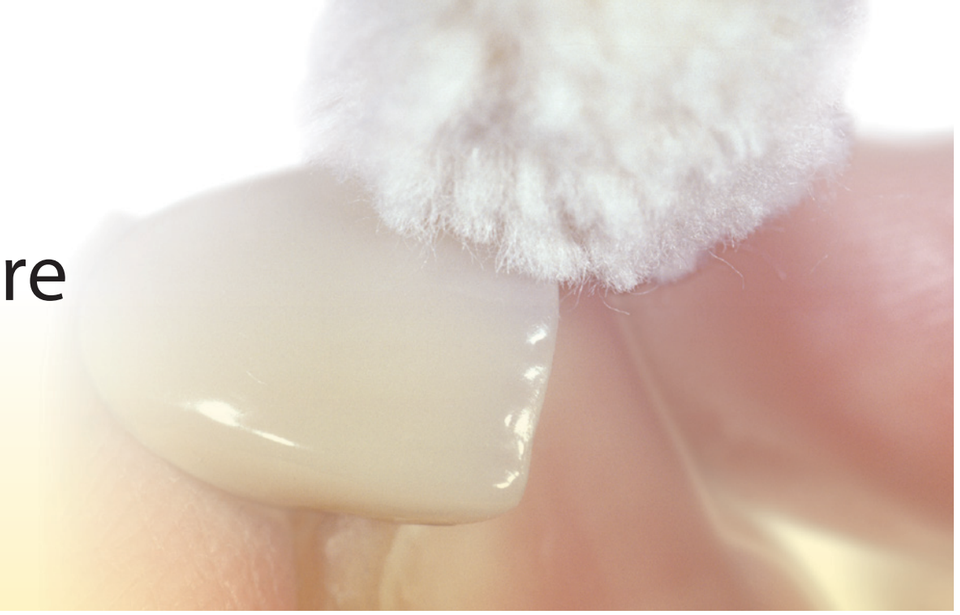


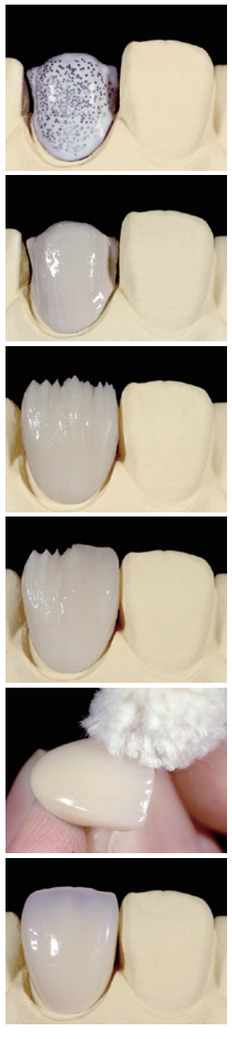


EFFECT line-up

STAIN line-up

Basic Layering Procedure





1 Apply Multi Primer Paste and Invisible Opaque, and Light Cure

Apply Multi Primer Paste evenly with a flat brush. Leave it for 120 sec., to enhance bonding strength. Light cure for about 10 sec. with LED CURE Master*(or for about 90 sec. with other general light curing machines). Then apply Invisible Opaque to cover retention beads. Apply thinly in marginal area with no beads. Light cure for about 10 sec. with LED CURE Master*(or for about 90 sec. with other general light curing machines). Multi Primer Paste is a bonding material, but at the same time it can be used as Invisible Opaque, the use of Invisible Opaque is not necessary. In this case, Multi Primer Paste should be applied thickly enough to cover retention beads.

Multi Primer Paste

2 Apply Opaque and Light Cure

Apply Opaque with a brush and light cure for about 30 sec. with LED CURE Master*(or for about 180 sec. with other general light curing machines). Repeat this step until the metal color is fully covered.

Opaque

3 Apply Dentine and Light Cure

Apply and form Dentine, considering the contours and shape of the dentine core, then light cure for about 10 sec. with LED CURE Master*(or for about 60 sec. with other general light curing machines).

Dentine

4 Apply Enamel and Light Cure

Apply and form Enamel, considering the final crown contours, then light cure for about 10 sec. with LED CURE Master*(or for about 60 sec. with other general light curing machines). As a final light-curing step, light cure for another about 90 sec. with LED CURE Master*(or for about 180 sec. with other general light curing machines).

Enamel

5 Polishing and Glazing

After adjusting the contours, polish for glazing with a C&B diamond polisher or a C&B nano diamond polisher using a rotating brush, a fabric buff and etc.

Polisher

6 Completion

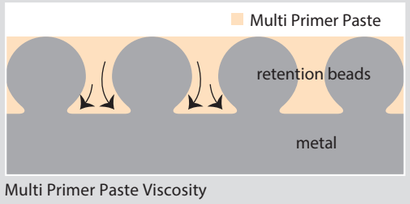
*Please see page 14 for curing time by LED CURE Master.

Movie Clip: Luna-Wing Basic Build-Up Layering Facing Crown
https://www.yamakin-global.com/news/movie.html

Easy Handling & Great Workability

Multi Primer Paste Viscosity

As Multi Primer Paste has optimal viscosity, it flows into the undercut area of retention beads easily and it enhances the adhesive strength mechanically. Also, the whitish translucency of Multi Primer Paste allows for an effective curing undercut area. The white color also works as a shading for the metal, so that opaque layering can be kept thinner in order to avoid immature curing. Apply Multi Primer Paste to cover 100-200µm diameter retention beads.

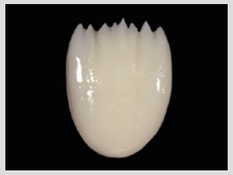


Multi Primer Paste Viscosity

Cross-section: Multi Primer Paste flowing into the retention bead undercut area.

Effective Shape Preservation of Internal Structures

Consistency of body resin affects workability at the work site. Especially, internal structures such as the dentine core require optimal consistency to keep form. Luna-Wing exhibits such good shape preservation that the dentine edges even of bridges or connected teeth can maintain shape during light curing. This is especially true of mamelons.



Dentine mamelon structure after 15 min. of forming

No Entrapping of Air in Enamel

Luna-Wing Enamel, Translucent and Effect are designed to 30% less viscosity than body resins such as Dentine, Cervical and Opaque Dentine. This consistency prevents entrapping of air and it fills up the space around mamelons easily.

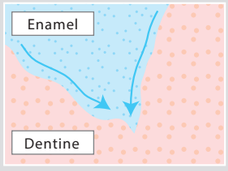


Image of Enamel filling into spaces in mamelon

This excellent workability is the result of employing spherical nano-fillers and the delicately calculated design of the shapes and the sizes of organic and inorganic complex fillers.

Translucent was used for this sample to demonstrate that there is no air trapped inside.

Hard Type Selection
There are hard type selections for our Enamel, Trans Enamel and Translucent products.
The consistency of Hard Type is very close to that of Dentine.

Luna-Wing Flow

Application example for internal characterizing
Paste type of Cervical and Dentine are used for basic application.

Flowable Type

As the nozzle is designed with a 0.7 mm opening, it is suitable for direct application.
Luna-Wing Flow has optimal flowability, it is suitable for using pontic area, characterizing and repairing.
Direct application lower the risk of entrapping air bubbles.
Even though it is a flowable type, it exhibit about 110MPa flexural strength, which is almost the same value as Luna-Wing paste type.

	Test Method: ISO 10477: 2018	Flowable type	Paste type
Flexural Strength (MPa)	Not lower than 50 (Not lower than 80 for occlusal surface)	110	114
Vickers Hardness (HV0.2)	Not lower than 18	40	59
Polymerization Shrinkage Rate (vol%)	–	3.4	1.8

(Reference value)

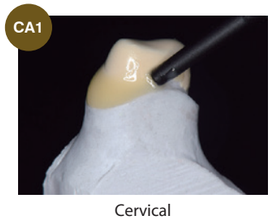
Luna-Wing Flow is intended for partial use such as bubble repair or characterization as it has a larger polymerization shrinkage rate than paste type. It is highly recommended to use paste type for basic application such as dentine and enamel layering.

Luna-Wing Flow Shade Color Lineup (16 colors)

Basic Shade

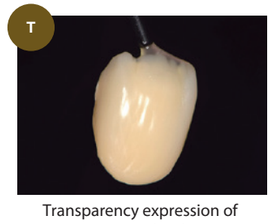
Trans | Effect

Luna-Wing Flow Application Example



Cervical

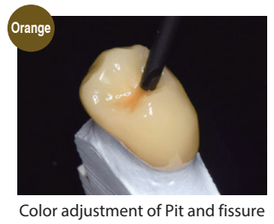
White Band Application for Facing Crown



Transparency expression of mamelon structure

Repairing air bubbles

Pouring in pontic area



Color adjustment of Pit and fissure

Color adjustment of gingival area

Luna-Wing Shade Color Table

	A0	A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
Invisible Opaque 2.3 mL	IvO																
Opaque 2.3 mL	OA0	OA1	OA2	OA3	OA3.5	OA4	OB1	OB2	OB3	OB4	OC1	OC2	OC3	OC4	OD2	OD3	OD4
Cervical 5 g (3 mL) Flowable type 3.8 g (2.3 mL)			CA1 Flow		CA2 Flow			CB1		CB2		CC1		CC2	CD1		CD2

Basic Shade

	A0	A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
Opaque Dentine 5 g (3 mL) Flowable type 3.8 g (2.3 mL)	ODA0	ODA1	ODA2	ODA3 Flow	ODA3.5	ODA4											
Dentine 5 g (3 mL) Flowable type 3.8 g (2.3 mL)	DA0	DA1	DA2 Flow	DA3 Flow	DA3.5 Flow	DA4	DB1	DB2	DB3	DB4	DC1	DC2	DC3	DC4	DD2	DD3	DD4
Enamel 5 g (3 mL) Flowable type 3.8 g (2.3 mL)	E0 Hard	E2 Hard Flow		E3 Hard Flow		E4 Hard	E1 Hard	E2 Hard Flow	E3 Hard Flow		E2 Hard Flow	E3 Hard Flow		E4 Hard	E2 Hard Flow	E3 Hard Flow	

Harmonized Shade

	A0	A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
Opaque Dentine 5 g (3 mL)			ODA2 HS	ODA3 HS	ODA3.5 HS												
Dentine 5 g (3 mL) Flowable type 3.8 g (2.3 mL)			DA2 HS Flow	DA3 HS Flow	DA3.5 HS Flow												
Enamel 5 g (3 mL)			E2 HS Hard	E3 HS Hard													

Trans Enamel 5 g (3 mL) Flowable type 3.8 g (2.3 mL)	TE Hard Flow									
Translucent 5 g (3 mL) Flowable type 3.8 g (2.3 mL)	HVT Hard	T Hard Flow	LVT Hard	CT Hard						
Effect 5 g (3 mL) Flowable type 3.8 g (2.3 mL)	HV WE	WE Flow	AM	OC						
	Coffee	Orange Flow	L GUM	GUM Flow	D GUM					
Special Opaque Color 2.3 mL	InO1	InO2	PO	MO						
Base 5 g (3 mL)	Base									

Stain 1 mL (Clear 6 mL)									
White Wht	Milky Mky	Pink Pnk	Salmon Pink S Pnk	White Violet W Vlt	Violet Vlt	Orange Org	Dark Orange Dk Org	Red Red
Yellow Yel	Blue Blu	Brown Brn	Reb Brown R Brn	Dark Brown Dk Brn	A Shift A Sft	B Shift B Sft	C Shift C Sft	D Shift D Sft
Gray Gry	Black Blk	Clear Clear						

Product Line-Up

	Product Name			Product Description
Invisible Opaque	Invisible Opaque is a low-viscosity opaque resin to enhance physical bonding strength. **2.3mL**			
	Invisible Opaque	IvO	IvO	Invisible Opaque is a flowable opaque resin that flows into the undercut of retention beads to enhance mechanical retention between metal and resin.
Opaque	Opaque for metal surface control **2.3mL**			
	Opaque A0	OA0	OA0	Opaque is used to cover metal color
	Opaque A1	OA1	OA1	
	Opaque A2	OA2	OA2	
	Opaque A3	OA3	OA3	
	Opaque A3.5	OA3.5	OA3.5	
	Opaque A4	OA4	OA4	
	Opaque B1	OB1	OB1	
	Opaque B2	OB2	OB2	
	Opaque B3	OB3	OB3	
	Opaque B4	OB4	OB4	
	Opaque C1	OC1	OC1	
	Opaque C2	OC2	OC2	
	Opaque C3	OC3	OC3	
	Opaque C4	OC4	OC4	
	Opaque D2	OD2	OD2	
	Opaque D3	OD3	OD3	
	Opaque D4	OD4	OD4	
Special Opaque Color	Special opaque resin for natural color expression **2.3mL**			
	Incisal Opaque1	InO1	InO1	In01 (gray), In02 (gray, purple); Basic color to give artificial translucency to connector of connected teeth and anterior incisal edge (when there is metal close to incisal edge)
	Incisal Opaque2	InO2	InO2	
	Pink Opaque	PO	PO	Opaque for GUM body
	Margin Opaque	MO	MO	Orangish beige color to emphasize cervical marginal area
Opaque Dentine	Body resin to prevent percolation of opaque color when the space available for build-up is extremely limited and to express further color depth. Apply thinly under Dentine layer when there is 0.5 mm thickness **5g (3mL)**			
	Opaque Dentine A0	ODA0	ODA0	Opaque Dentine is used to prevent percolation of opaque color (when there is an extremely thin space for build-up) (when sufficient thickness for Dentine is not secured) When layering thickness is less than 0.5 mm, apply Opaque Dentine for 0.2 mm to express color depth. Then apply Dentine for the rest.
	Opaque Dentine A1	ODA1	ODA1	
	Opaque Dentine A2	ODA2	ODA2	
	Opaque Dentine A3	ODA3	ODA3	
	Opaque Dentine A3.5	ODA3.5	ODA3.5	
	Opaque Dentine A4	ODA4	ODA4	
Opaque Dentine Harmonized Shade	Slightly toned down the redness of basic Opaque Dentine shade. **5g (3mL)**			
	Opaque Dentine A2 Harmonized Shade	ODA2 HS	ODA2 HS	Color tone is closer to a general shade guide than basic shade.
	Opaque Dentine A3 Harmonized Shade	ODA3 HS	ODA3 HS	
	Opaque Dentine A3.5 Harmonized Shade	ODA3.5 HS	ODA3.5 HS	
Cervical	Body resin for natural color expression on cervical area **5g (3mL)**			
	Cervical A1	CA1	CA1	Body resin for natural color expression around cervical area
	Cervical A2	CA2	CA2	
	Cervical B1	CB1	CB1	
	Cervical B2	CB2	CB2	
	Cervical C1	CC1	CC1	
	Cervical C2	CC2	CC2	
	Cervical D1	CD1	CD1	
	Cervical D2	CD2	CD2	
Dentine	Body resin to express dentine **5g (3mL)**			
	Dentine A0	DA0	DA0	Body resin to express dentine
	Dentine A1	DA1	DA1	
	Dentine A2	DA2	DA2	
	Dentine A3	DA3	DA3	
	Dentine A3.5	DA3.5	DA3.5	
	Dentine A4	DA4	DA4	
	Dentine B1	DB1	DB1	
	Dentine B2	DB2	DB2	
	Dentine B3	DB3	DB3	
	Dentine B4	DB4	DB4	
	Dentine C1	DC1	DC1	
	Dentine C2	DC2	DC2	
	Dentine C3	DC3	DC3	
	Dentine C4	DC4	DC4	
	Dentine D2	DD2	DD2	
	Dentine D3	DD3	DD3	
	Dentine D4	DD4	DD4	
Dentine Harmonized Shade	Slightly toned down the redness of basic Dentine shade. **5g (3mL)**			
	Dentine A2 Harmonized Shade	DA2 HS	DA2 HS	Color tone is closer to a general shade guide than basic shade.
	Dentine A3 Harmonized Shade	DA3 HS	DA3 HS	
	Dentine A3.5 Harmonized Shade	DA3.5 HS	DA3.5 HS	

	Product Name			Product Description
Enamel	Body resin to express enamel **Hard type is available** **5g (3mL)**			
	Enamel 0	E0	E0	Body resin to express enamel
	Enamel 1	E1	E1	
	Enamel 2	E2	E2	
	Enamel 3	E3	E3	
	Enamel 4	E4	E4	
Enamel Harmonized Shade	Slightly toned down the redness of basic Enamel shade **Hard type is available** **5g (3mL)**			
	Enamel 2 Harmonized Shade	E2 HS	E2 HS	Color tone is closer to a general shade guide than basic shade.
	Enamel 3 Harmonized Shade	E3 HS	E3 HS	
Trans Enamel	Body resin to express translucency **Hard type is available** **5g (3mL)**			
	Trans Enamel	TE	TE	Trans Enamel is intermediate in terms of crystal clearness between Translucent and Enamel.
Translucent	Body resin to express translucency **Hard type is available** **5g (3mL)**			
	High Value Translucent	HVT	HVT	Highly bright translucent
	Translucent	T	T	Normal translucent
	Low Value Translucent	LVT	LVT	Translucent with low brightness
	Cervical Translucent	CT	CT	Light orange-pink translucent color. Used to express reflection of gum color on cervical area.
Effect	Characterizing body resin to express discolored tooth, etc. **5g (3mL)**			
	Amber	AM	AM	Amber translucent color
	Occlusal	OC	OC	Extremely light orange color used for occlusal surface of posterior.
	White Enamel	WE	WE	Enamel color with high brightness. Whiter and more opaque than E0 shade.
	High Value White Enamel	HVWE	HVWE	White Enamel color brighter than WE.
	Coffee	Coffee	Coffee	Emphasizes brown colors such as Coffee
	Orange	Orange	Orange	Emphasized orange color
	Light Gum	L GUM	L GUM	Bright Gum color shade
	Gum	GUM	GUM	Standard Gum color shade
	Dark Gum	D GUM	D GUM	Dark Gum color shade
Stain	Characterizing paste to express discolored tooth. Apply thinly to express characterizing color effectively. **1mL**			
	Stain White	White	Wht	White color
	Stain Milky	Milky	Mky	Milky color
	Stain Pink	Pink	Pnk	Pink color
	Stain Salmon Pink	Salmon Pink	S Pnk	Salmon pick color
	Stain White Violet	White Violet	W Vlt	White violet color
	Stain Violet	Violet	Vlt	Violet color
	Stain Orange	Orange	Org	Orange color
	Stain Dark Orange	Dark Orange	Dk Org	Dark organge color
	Stain Red	Red	Red	Red color
	Stain Yellow	Yellow	Yel	Yellow color
	Stain Blue	Blue	Blu	Blue color
	Stain Brown	Brown	Brn	Brown color
	Stain Red Brown	Red Brown	R Brn	Red brown color
	Stain Dark Brown	Dark Brown	Dk Brn	Dark brown color
	Stain A Shift	A shift	A Sht	Red-Brown color to shift A shade.
	Stain B Shift	B shift	B Sht	Red-Yellow color to shift B shade.
	Stain C Shift	C shift	C Sht	Gray color to shift C shade.
	Stain D Shift	D shift	D Sht	Red-Gray color to shift D shade.
	Stain Gray	Gray	Gry	Gray color
	Stain Black	Black	Blk	Black color
	Stain Clear	Clear	Clear	Liquid to dilute and adjust Stain. Can be used to emphasize transparent color. **6mL**
Flow	Flow type is matched with Paste type of the same shade and color. They can be used together. Easy for direct application. **3.8g (2.3mL)**			
	Dentine A2 Flow	DA2 Flow	DA2 Flow	Used for expression of dentin morphology. Easily poured into complex cavities such as inlays.
	Dentine A3 Flow	DA3 Flow	DA3 Flow	
	Dentine A3.5 Flow	DA3.5 Flow	DA3.5 Flow	
	Dentine A2 Harmonized Shade Flow	DA2 HS Flow	DA2 HS Flow	A color tone that is less reddish than the basic shade, enabling color tone expression similar to a general shade guide.
	Dentine A3 Harmonized Shade Flow	DA3 HS Flow	DA3 HS Flow	
	Dentine A3.5 Harmonized Shade Flow	DA3.5 HS Flow	DA3.5 HS Flow	
	Cervical A1 Flow	CA1 Flow	CA1 Flow	Easy to form and express cervical area especially for cases such as jacket crowns and resin margins.
	Cervical A2 Flow	CA2 Flow	CA2 Flow	
	Opaque Dentine A3 Flow	ODA3 Flow	ODA3 Flow	Dentine color can be expressed even in cases with a thickness of 0.3 mm layering space, and places where light transmission is to be suppressed, such as the base of a pontic, or in a pontic area.
	Enamel 2 Flow	E2 Flow	E2 Flow	Thin and uniform layering can be easily performed. Suitable for additional layering such as correction of small air bubbles.
	Enamel 3 Flow	E3 Flow	E3 Flow	
	Trans Enamel Flow	TE Flow	TE Flow	More transparent than Enamel Flow. Suitable for a substitute for Enamel, internal structure of incisal area, and fine valleys of mamelon structure without entrapping air bubbles.
	Translucent Flow	T Flow	T Flow	More transparent than Trans Enamel and can be used to express strong translucency at the incisal area.
	White Enamel Flow	WE Flow	WE Flow	Enamel color with high brightness. Possible to layer white band and thinly apply extending as an expression of cloudy Enamel color.
	Orange Flow	Orange Flow	Orange Flow	Strong orange color. For orange color at the central part of the occlusal surface of molars, color tones near the cervical area and the tips of mamelon.
	GUM Flow	GUM Flow	GUM Flow	Complex and natural gingival colors can be expressed by using with paste GUM.
Base	Body resin as base to fill pontic part of bridge, etc. **5g (3mL)**			
	Base	Base	Base	Transparent color with deep light cure depth designed exclusively for pontic part *Cannot be used on facing part
Multi Primer Repair Liquid One	Use for additional layering or reshaping. **6mL**			
	Repair Liquid One	Repair-Liquid	Repair-Liquid	Improving adaptation of cured surface
Multi Primer Paste	Use before Invisible Opaque for surface treatment. **2mL**			
	Primer Paste	MP.Pst	MP.Pst	Primer Paste exhibits strong bonding to metals.
Related Product	Related products for Luna-Wing			
	Flat Brush (5 pcs.)	–	–	For repair liquid and opaque
	Round Brush (5 pcs.)	–	–	For hair-line, crack line and stain
	Mixing Paper (50 sheet × 5 pcs.)	–	–	For opaque and stain
	Pallet (15 pcs.)	–	–	It is possible to mix the stain in advance on a flat surface.
	Shade Cover (2 pcs.)	–	–	Curing prevention cover

Curing Time for Luna-Wing and TWiNY

		LED CURE Master	Other General Light Curing Machines
Invisible Opaque		10 sec.	90 sec.
Opaque		30 sec.	180 sec.
Body (Dentine, Enamel, etc)	Base	90 sec.	180 sec.
	Others	10 sec.	60 sec.
Flow		10 sec.	60 sec.
Stain		10 sec.	60 sec.
Final Light Curing		90 sec.	180 sec.

Luna-Wing

Regular Set E·T Hard

This set is for users who would like to use all kinds of shade colors.

Invisible Opaque 2.3mL	: IvO
Opaque 2.3mL	: OA1, OA2, OA3, OA3.5, OA4, OB2, OB3, OC3
Special Opaque Color 2.3mL	: InO1, MO
Cervical 5g (3mL)	: CA1, CA2, CB1, CC1
Dentine 5g (3mL)	: DA1, DA2, DA3, DA3.5, DA4, DB2, DB3, DC3
Opaque Dentine 5g (3mL)	: ODA1, ODA2, ODA3, ODA3.5, ODA4
Enamel 5g (3mL)	: E2, E3, E4
Translucent 5g (3mL)	: T

Multi Primer Paste (2mL)
Multi Primer Repair Liquid One (6mL)

Accessories:
Flat Brush (3), Round Brush (3),
Mixing Paper (50), Pallets (5) with shade cover (1)

Enamel and Translucent can be replaced by Hard Type.

Starter Set E·T Hard HS HS E·T Hard

This set is composed of A2, A3 and A3.5 shade.

Invisible Opaque 2.3mL	: IvO
Opaque 2.3mL	: OA2, OA3, OA3.5
Special Opaque Color 2.3mL	: InO1, MO
Cervical 5g (3mL)	: CA1, CA2
Dentine 5g (3mL)	: DA2, DA3, DA3.5
Opaque Dentine 5g (3mL)	: ODA2, ODA3, ODA3.5
Enamel 5g (3mL)	: E2, E3
Translucent 5g (3mL)	: T

Multi Primer Paste (2mL)
Multi Primer Repair Liquid One (6mL)

Accessories:
Flat Brush (3), Round Brush (3),
Mixing Paper (50), Pallets (5) with shade cover (1)

Enamel and Translucent can be replaced by Hard Type,
HS type and HS-Hard Type.

Intro Set E·T Hard HS HS E·T Hard

This set is for user who would like to try Luna-Wing.

Invisible Opaque 2.3mL	: IvO
Opaque 2.3mL	: OA3
Special Opaque Color 2.3mL	: InO1, MO
Cervical 5g (3mL)	: CA1
Dentine 5g (3mL)	: DA3
Opaque Dentine 5g (3mL)	: ODA3
Enamel 5g (3mL)	: E3
Translucent 5g (3mL)	: T

Multi Primer Paste (2mL)
Multi Primer Repair Liquid One (6mL)

Accessories:
Flat Brush (2), Round Brush (3)

Enamel can be changed into
Hard type, HS type or HS Hard type.
Translucent can be replaced by Hard type.

Stain Kit

This kit is composed of 12 kinds of color stain.

Stain 1mL	: Blue, Yellow, Red, Orange, Dark Orange, White, Black, Gray, Brown, A Shift, B Shift
Stain Clear 6mL	: Clear

Accessories:
Flat Brush (2), Mixing Paper (50), Pallets (5) with shade cover (1)

Pallets

shade cover

Mixing Papers

Flat Brushes

Round Brushes

Multi Primer

Multi Primer PASTE

Multi Primer
REPAIR LIQUID ONE

Harmonized Shade HS

Opaque Dentine HS 3

Dentine HS 3

Enamel HS 2

Luna-Wing Flow

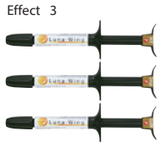
Cervical 2

Dentine 3

Dentine HS 3

Enamel 2

Effect 3



Trans Enamel 1

Translucent 1

Opaque Dentine 1

E·T Hard

Enamel Hard 5

Translucent Hard 4

HS E·T Hard

Enamel HS Hard 2

Trans Enamel Hard 1

Available Set		Basic Type	Option Type		
			E·T Hard	HS	HS E·T Hard
Regular Set		○	○		
Starter Set		○	○	○	○
Intro Set	A2	○	○	○	○
	A3	○	○	○	○

Luna-Wing will change your way of thinking about composite resin.
This C&B composite resin is just a pleasure to work with.
Of course, Luna-Wing isn't only a pleasure to work with; it's also a product of the most outstanding quality.

Luna-Wing

For a Well-Grounded Safety System

Evaluation of dental material safety is designated by the Pharmaceutical Affairs Law in Japan and ISO 10993 overseas. We fully comply with these regulations and standards. In addition, in order to secure a higher level of safety, we set up the Biological Science Safety Laboratory in collaboration with the Department of Oral and Maxillofacial Surgery, Kochi Medical School, Kochi University, Japan. We have been continuously researching and developing in collaboration with other medical and dental colleges and research institutes.

Quality Management System for Global Standard Compliance

We were audited and approved by Notified Body TÜV SÜD, Germany, in order to obtain ISO 13485 (Quality Management System of Medical Devices) certification. We have realized an advanced high-level quality management system as a manufacturer of Controlled Medical Devices.


Certificate

Strict Hygienic Control

From research and development to production, YAMAKIN has established a consolidated management system. Especially, resin products are Manufacturing process for composite resin products are conducted in clean rooms and controlled under strict hygienic environment so as to avoid any dust contamination.

Monitoring of Safety Information

Regarding safety information from the production management stage through to safety management post-marketing surveillance: In order to judge quality standards objectively, we set up an independent sales monitoring system, under a marketing supervisor-general. We have assigned a quality assurance manager to the system, who is responsible for Good Quality Practice; and we have also assigned a safety management supervisor, who is responsible for Good Vigilance Practice. We monitor all information reported to us from clinical practices.

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