



# Luna-Wing

C&B Hybrid Composite Resin



Creating Value – the future in our sights





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 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

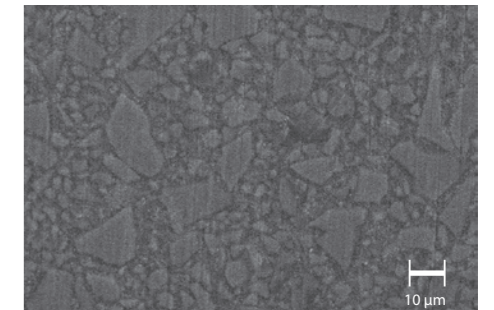
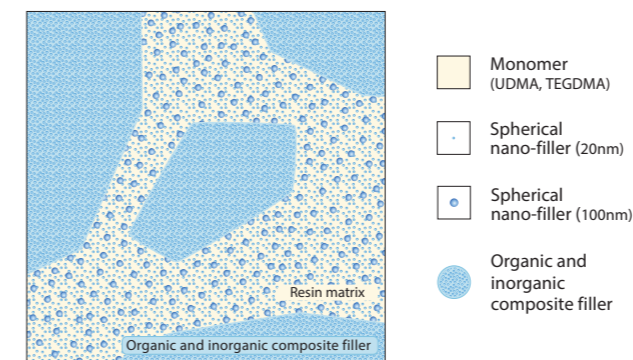
## Nanofiller & Nano Technology

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

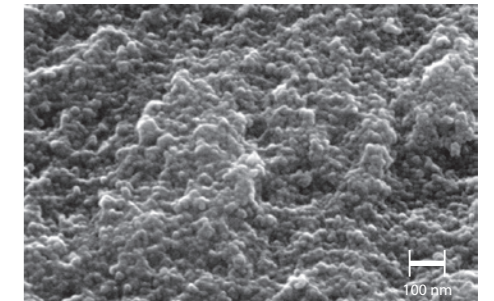
Luna-Wing is an indirect composite resin exploiting the full potential of Nano-Technology, and has become one of the highest-density filler products on the market by using a mix of different-sized inorganic fillers. However, simply having the highest standard of filler material does not directly guarantee 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, abrasability, and color reproducibility.

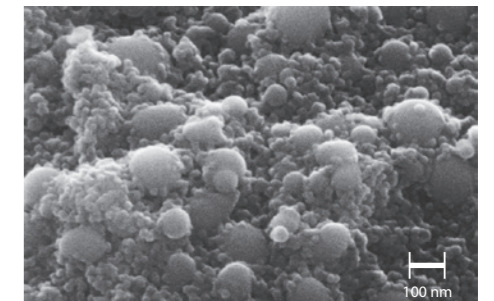
Image of Luna-Wing material structure



SEM photograph of Luna-Wing (x1000)  
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 100nm organic composite filler part (x100,000)  
This picture shows that spherical Nano filler of about 20 nm is hybridized with high density and uniformity.



SEM photograph of 100nm 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.

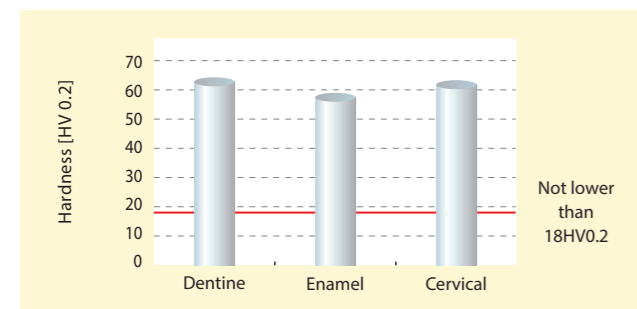
## Water Sorption and Solubility

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.

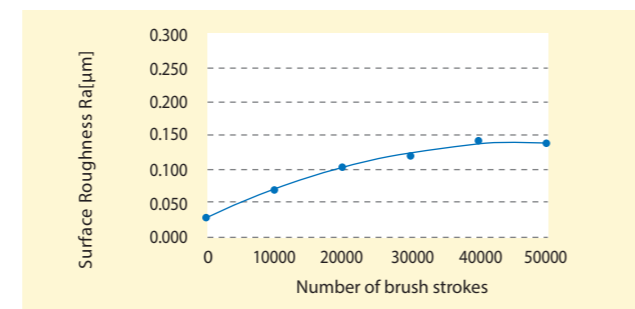
## Extremely Low Shrinkage-Only 1.8%

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.

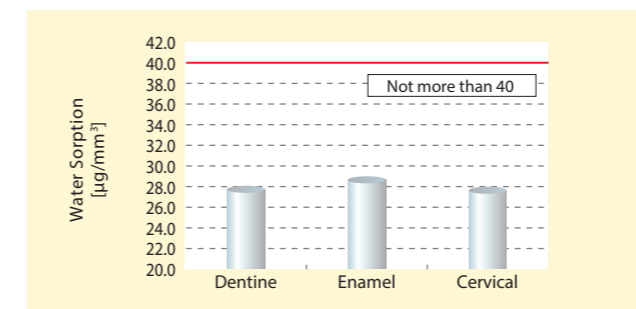
Vickers Hardness (ISO 4049)



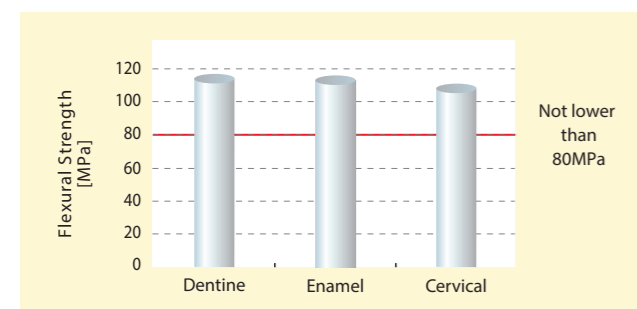
Abrasion Resistance (ISO 14569-1)



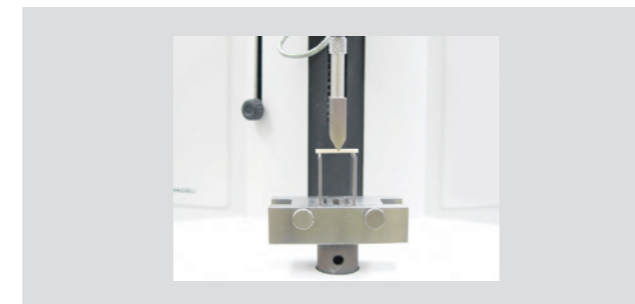
Water Sorption (ISO 10477)



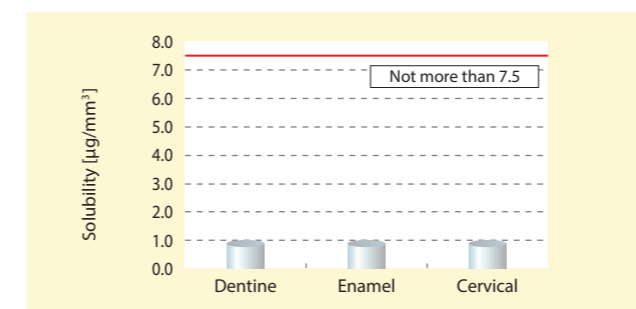
Flexural Strength (ISO 10477)



Flexural Strength Test



Solubility (ISO 10477)



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

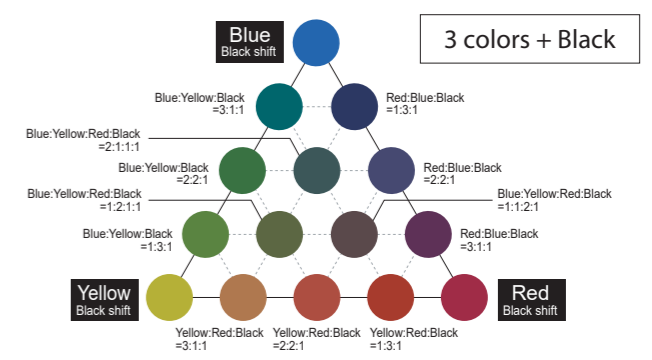
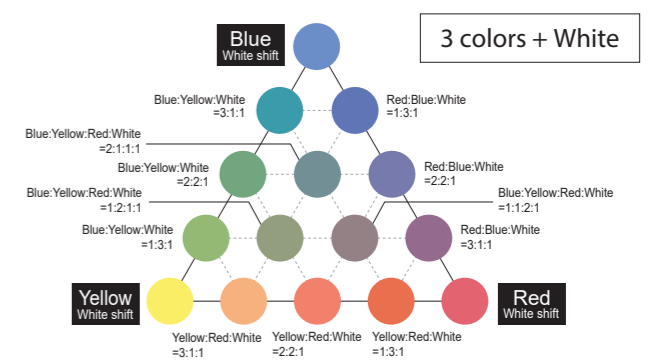
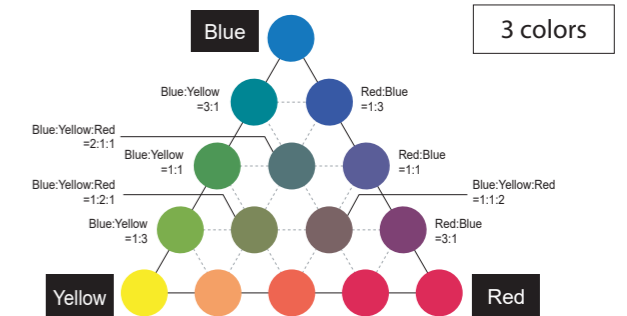




# Extensive Color Variation



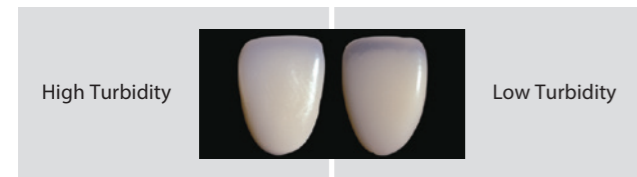
A variety of colors can be created from three basic colors.



## Turbidity Optically Stable

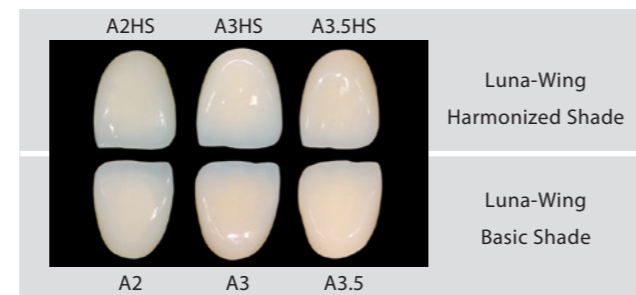
Many dental technicians have experienced the situation of making an artificial tooth, only to find that there is a visible line between the metal backing and the composite resin. This is because natural light penetrates the incisal area and the metal frame becomes visible. Luna-Wing exhibits natural 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



## Harmonized Shade

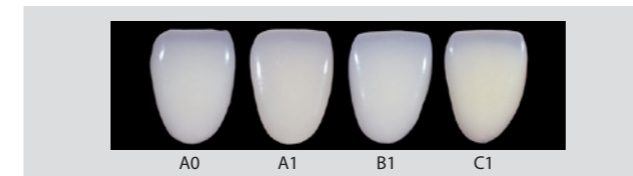
Luna-Wing is designed to match the most popular shade guide in current dentistry. Harmonized shade is designed slightly toned down the redness of Luna-Wing basic shade. Easy to use, even for first time users of Luna-Wing. Hard type is also available for Enamel line-up.



## 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.

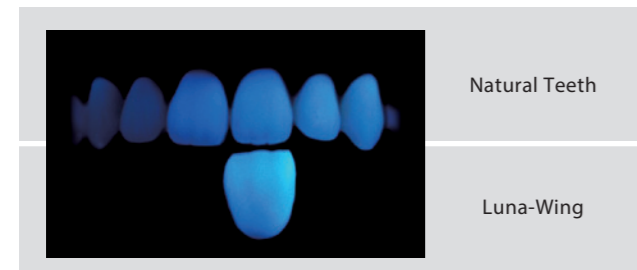
Luna-Wing's A0 Shade is whiter than found in the normal shade guide.



## 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)



## 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.

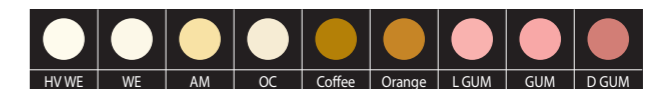
Example of Opaque Dentine



## 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.

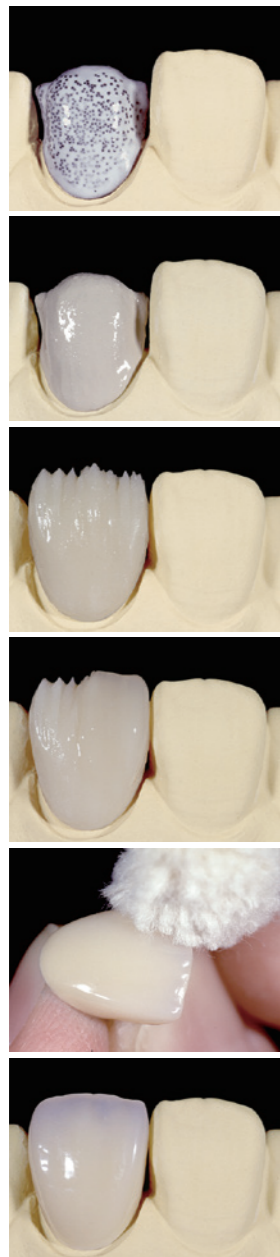
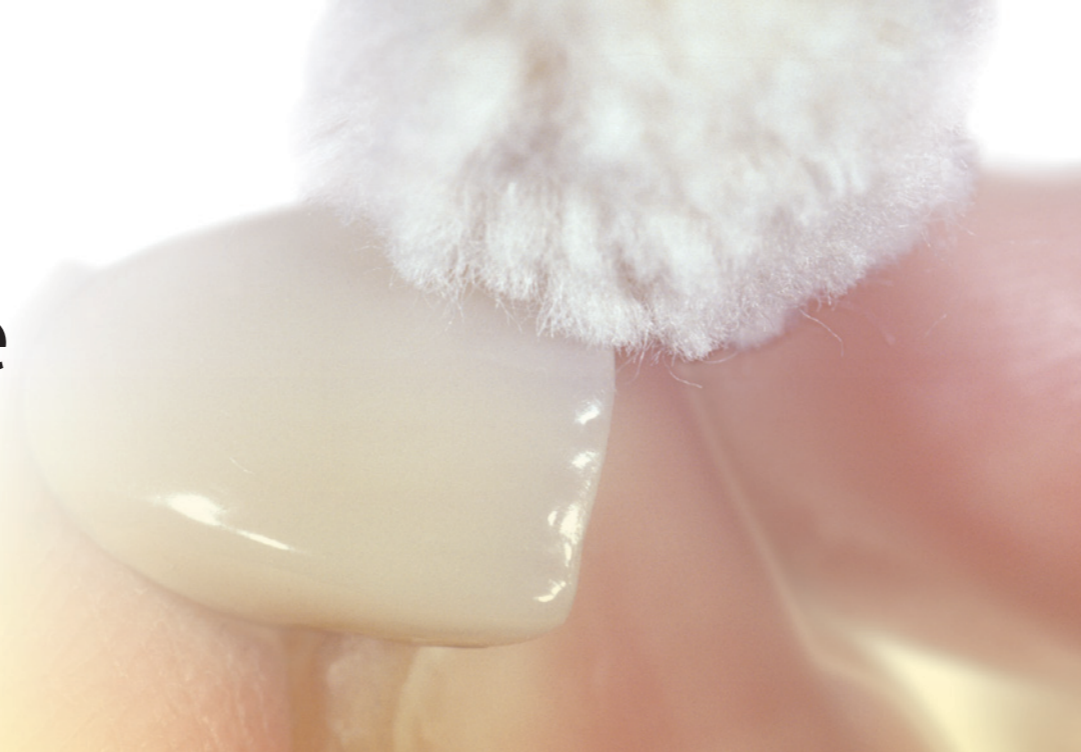
EFFECT line-up



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.

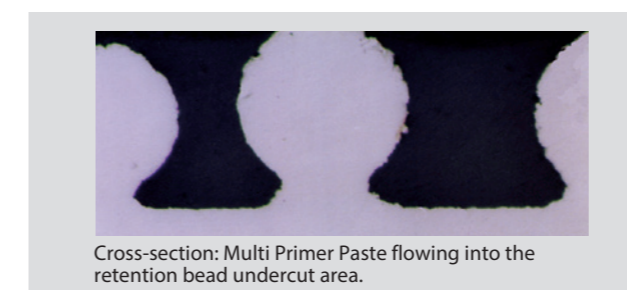
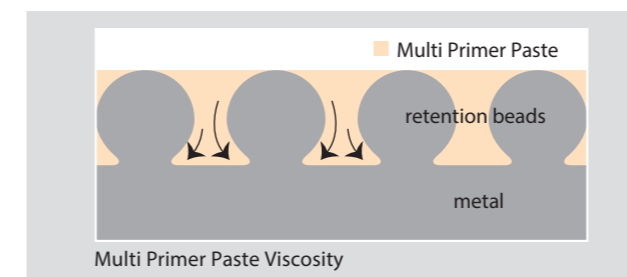


Movie Clip: Luna-Wing Basic Build-Up Layering Facing Crown  
<https://www.yamakin-global.com/news/movie.html>

# Easy Handling & Great Workability

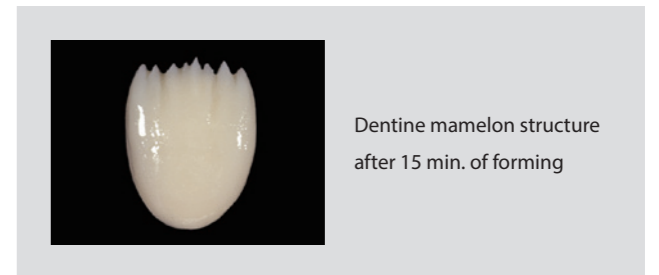
## Multi Primer Paste Viscosity

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.



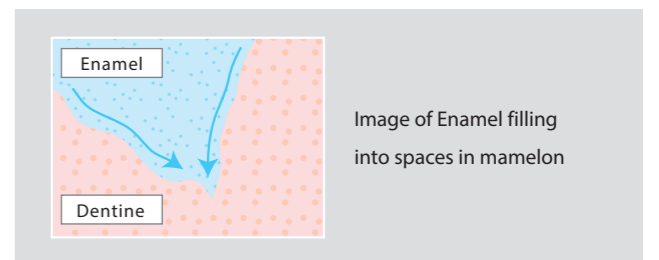
## Effective Shape Preservation of Internal Structures

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.

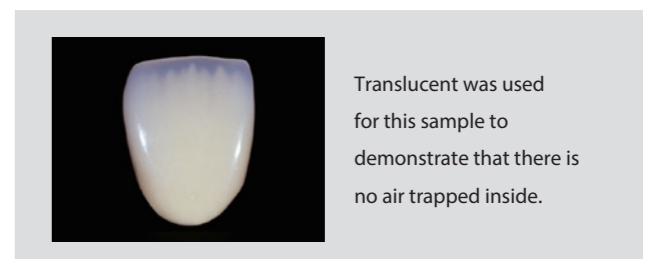


## No Entrapping of Air in Enamel

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.



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.

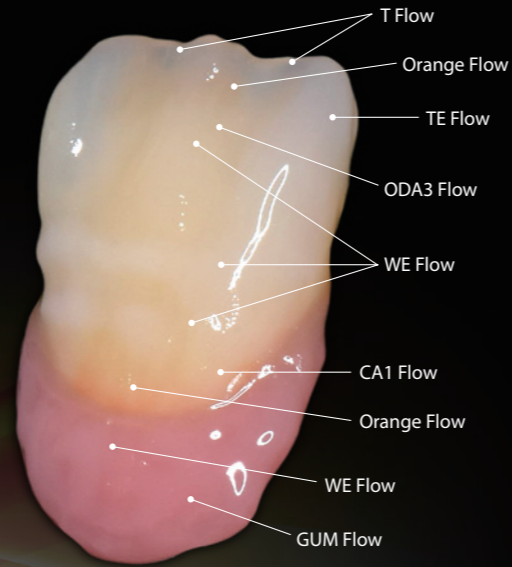


## Hard Type Selection

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.

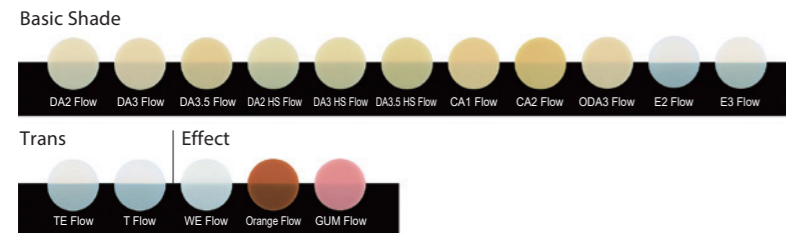
## Flowable Type

As the nozzle is designed with a 0.7mm 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.

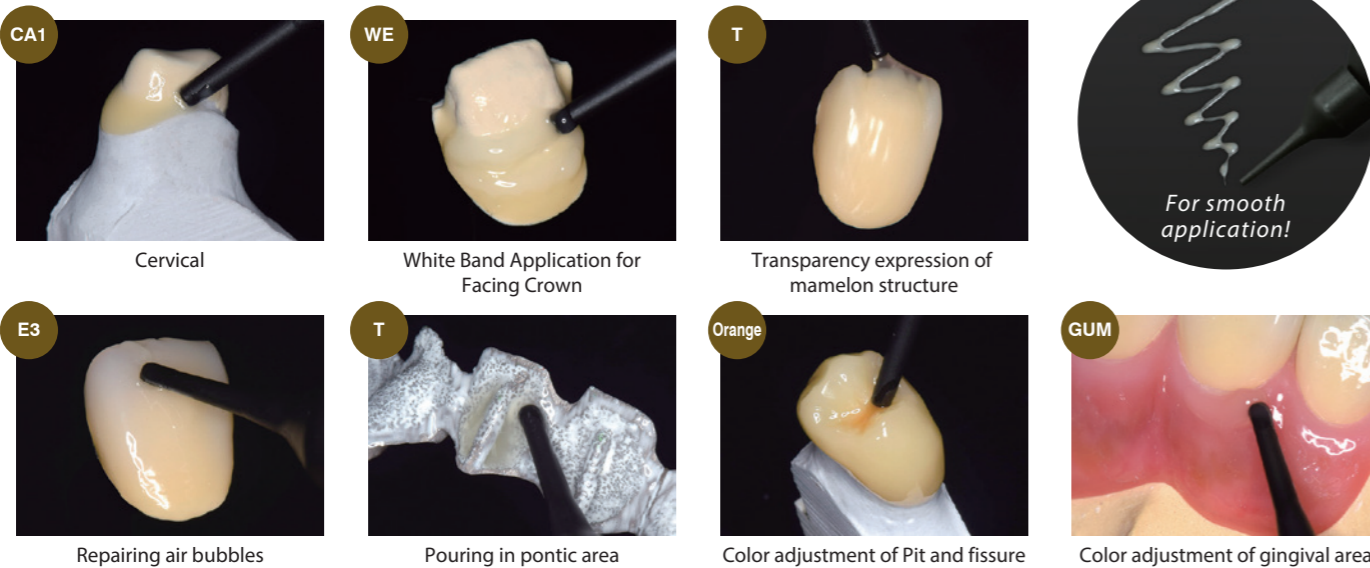
	Test Method: ISO 10477:2018	Flowable type	Paste type
Flexural Strength (MPa)	Not lower than 50 (Not lower than 80 for occlusal surface)	110	114
Vickers Hardness (HV0.2)	Not lower than 18	40	59
Polymerization Shrinkage Rate (vol%)	-	3.4	1.8

(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)



## Luna-Wing Flow Application Example



## 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	iv0																
Opaque 2.3 mL	OA0	OA1	OA2	OA3	OA3.5	OA4	OB1	OB2	OB3	OB4	OC1	OC2	OC3	OC4	OD2	OD3	OD4
Cervical 5g (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 5g (3 mL) Flowable type 3.8 g (2.3 mL)	ODA0	ODA1	ODA2	ODA3 (Flow)	ODA3.5	ODA4											
Dentine 5g (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 5g (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 5g (3 mL)			ODA2 HS	ODA3 HS	ODA3.5 HS												
Dentine 5g (3 mL) Flowable type 3.8 g (2.3 mL)			DA2 HS (Flow)	DA3 HS (Flow)	DA3.5 HS (Flow)												
Enamel 5g (3 mL)			E2 HS (Hard)	E3 HS (Hard)													

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



# Product Line-Up

	Product Name			Product Description	
Invisible Opaque	Invisible Opaque is a low-viscosity opaque resin to enhance physical bonding strength. <b>2.3mL</b>				
	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 <b>2.3mL</b>				
	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 <b>2.3mL</b>				
	Incisal Opaque1	InO1	InO1	InO1 (gray), InO2 (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		
Margin Opaque	MO	MO			
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 <b>5g (3mL)</b>				
	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 0.5mm, apply Opaque Dentine for 0.2mm 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. <b>5g (3mL)</b>				
	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 <b>5g (3mL)</b>				
	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 <b>5g (3mL)</b>			
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. <b>5g (3mL)</b>				
	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 <b>Hard type is available</b> <b>5g (3mL)</b>				
	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 <b>Hard type is available</b> <b>5g (3mL)</b>				
	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		
Enamel 4 Harmonized Shade	E4 HS	E4 HS			
Trans Enamel	Body resin to express translucency <b>Hard type is available</b> <b>5g (3mL)</b>				
	Trans Enamel	TE	TE	Trans Enamel is intermediate in terms of crystal clearness between Translucent and Enamel.	
Translucent	Body resin to express translucency <b>Hard type is available</b> <b>5g (3mL)</b>				
	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. <b>5g (3mL)</b>				
	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. <b>1mL</b>			
		Stain White	White	Whit	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 orange 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.	
Flow		Flow type is matched with Paste type of the same shade and color. They can be used together. Easy for direct application. <b>3.8g (2.3mL)</b>			
		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	
		Dentine A3 Harmonized Shade Flow	DA3 HS Flow	DA3 HS Flow	A color tone that is less reddish than the basic shade, enabling color tone expression similar to a general shade guide.
	Dentine A3.5 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.	
	Enamel 3 Flow	E3 Flow	E3 Flow	Suitable for additional layering such as correction of small air bubbles.	
	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. <b>5g (3mL)</b>				
	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. <b>6mL</b>				
	Repair Liquid One	Repair-Liquid	Repair-Liquid	Improving adaptation of cured surface	
Multi Primer Paste	Use before Invisible Opaque for surface treatment. <b>2mL</b>				
	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 x 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.
	Others	10 sec.
Flow	10 sec.	60 sec.
Stain	10 sec.	60 sec.
Final Light Curing	90 sec.	180 sec.

## LED CURE Master



Indirect LED light curing equipment





# 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                                      | Multi Primer Paste (2mL)                             |
| Opaque 2.3mL               | : OA1, OA2, OA3, OA3.5, OA4, OB2, OB3, OC3 | Multi Primer Repair Liquid One (6mL)                 |
| Special Opaque Color 2.3mL | : InO1, MO                                 |  |
| Cervical 5g (3mL)          | : CA1, CA2, CB1, CC1                       | Accessories:   |
| Dentine 5g (3mL)           | : DA1, DA2, DA3, DA3.5, DA4, DB2, DB3, DC3 | Flat Brush (3), Round Brush (3),                     |
| Opaque Dentine 5g (3mL)    | : ODA1, ODA2, ODA3, ODA3.5, ODA4           | Mixing Paper (50), Pallets (5) with shade cover (1)  |
| Enamel 5g (3mL)            | : E2, E3, E4                               |  |
| Translucent 5g (3mL)       | : T  | 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                | Multi Primer Paste (2mL)   |
| Opaque 2.3mL               | : OA2, OA3, OA3.5    | Multi Primer Repair Liquid One (6mL)   |
| Special Opaque Color 2.3mL | : InO1, MO           |  |
| Cervical 5g (3mL)          | : CA1, CA2           | Accessories:   |
| Dentine 5g (3mL)           | : DA2, DA3, DA3.5    | Flat Brush (3), Round Brush (3),   |
| Opaque Dentine 5g (3mL)    | : ODA2, ODA3, ODA3.5 | Mixing Paper (50), Pallets (5) with shade cover (1)                            |
| Enamel 5g (3mL)            | : E2, E3             |  |
| Translucent 5g (3mL)       | : T                  | 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)

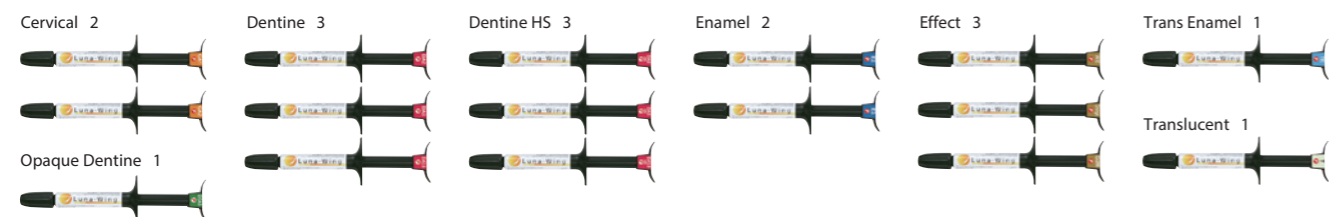
- Accessories:  
Flat Brush (2), Round Brush (3)

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

## Harmonized Shade HS



## Luna-Wing Flow



## 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



## 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.



### For a Well-Founded 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.



### 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.

Manufacturer

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