

Controlled Medical Device – Dental glazing material (Coloring material for polymer-based crown, Bonding Material for Dental Resin)

Nu:le Coat

Characterization material for resin

Pre-treatment for PEEK

Nu:le Coat

More easily, more satisfactory.



Manufacturer

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CE 0123

INTERNATIONAL20241121



For Laboratory
&
Clinic Use



Low Viscosity for
Easy Application



Transparent Glossy Coat
Can be overglazed



Excellent
Durability



For Flexible Color
Adjustment



plus One
Bonding for
PEEK frame

Nu:le Coat

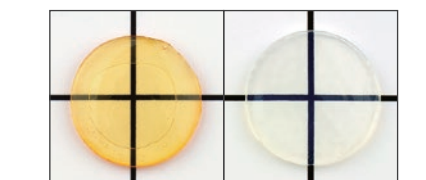
Easy Application and Solid Coating



Pursuing Transparency

The higher surface hardness remained the same and reduced the amount of photopolymerization initiator that causes yellowness to the extreme.

Nu:le Coat Liquid Clear (hereafter Clear) is clear even immediately after light curing, so it is difficult to affect the original color tone of dental restoration even when applied overglaze. Therefore, Clear can be used easily for whitening shades.



Prototype Clear
Pellet thickness (immediately after light curing) : 1.0 mm

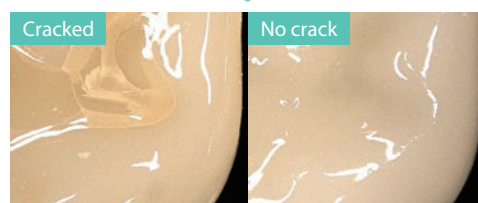
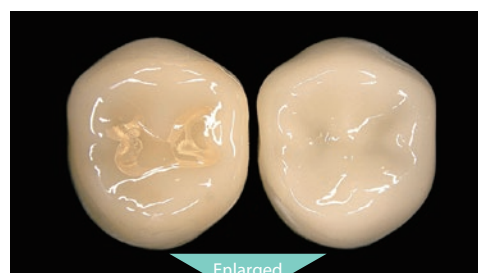


Applied 2 layers of Nu:le Coat Clear on TWiNY A0 crown.

Small Curing Strain

The combination of flexible polyfunctional monomers and tough cross-linkable monomers reduced curing strain.

Therefore, even if the applied layer become thicker because of overglaze, it is less likely to occur cracks or floated surface.



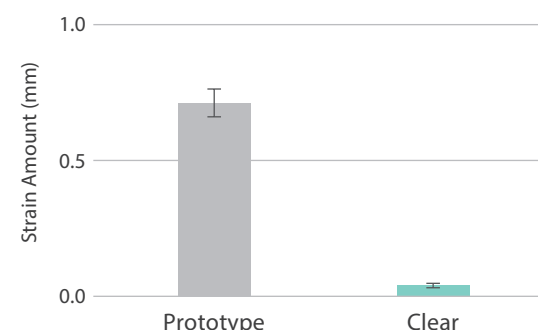
Prototype Clear

Crack Evaluation Test

Dropped the liquid directly into the pit and fissure of crowns and evaluated by microscopy for the presence of cracks and floated surface after light curing.

Thanks to the small curing strain, the inhibition of cracking and floated surface can be expected even when a lot of liquid has been applied to the pit and fissure or the junction.

Evaluation of Curing Strain



Curing deformation after light curing (strain amount) is greatly reduced comparing the thickness before light curing (0.5 mm) .

Excellent Durability

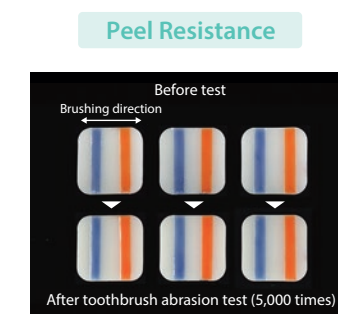
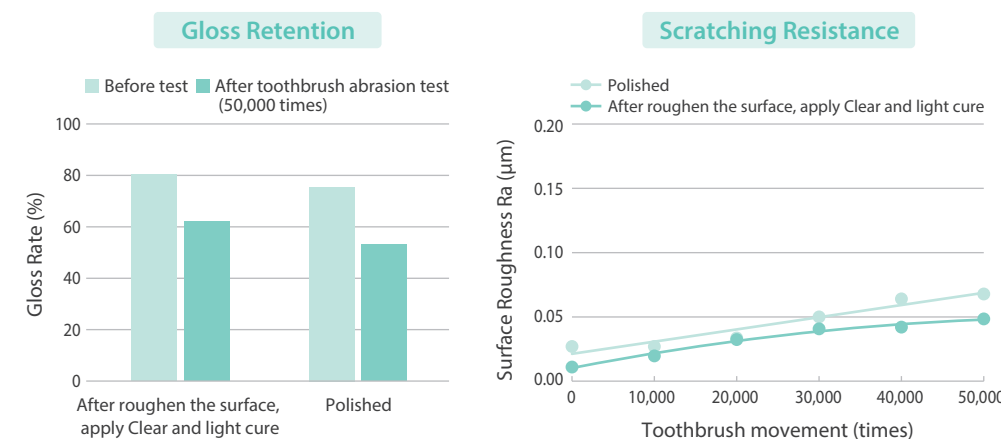
In the evaluation of toothbrush abrasion test (50000 times) ^{*1)}, it is equal to or more than that of polishing finish, and excellent abrasion resistance has been confirmed.

It is reported that plaque adherence is rapidly increase when the surface roughness exceeds 0.2 μm ^{*2)}. However, the surface roughness of Nu:le Coat applied surface is less than 0.1 μm even after 50,000 times of toothbrush abrasion test.

^{*1)} ISO14569-1, the ratio of toothpaste and water is 1:2, Load weight 2.0N

Brush stroke 50,000 times is equivalent to about 7 years if it is assumed to brush teeth twice a day and brush 10 times per tooth.

^{*2)} Bollen. M. Et al. : Dental Mater, 13 (4) 258~269, 1997.



It has been confirmed that Nu:le Coat color type (Blue and Orange) which is for characterization is remained as well after 50,000 times of toothbrush abrasion test.

Low Viscosity and Easy Application

Nu:le Coat Liquid was pursued an optimal viscosity that is easy to apply. Thanks to low viscosity design, hard to remain traces of a brush and easy to apply thinly and evenly. Thin hard-coated layers of about 5 μm can be created, allowing coating and characterization without losing the surface structure of dental restorations.

And please use Gel type when thicker layers are necessary.

Thickness of 1 layer

- Liquid : 5-15 μm
- Gel : 20-50 μm



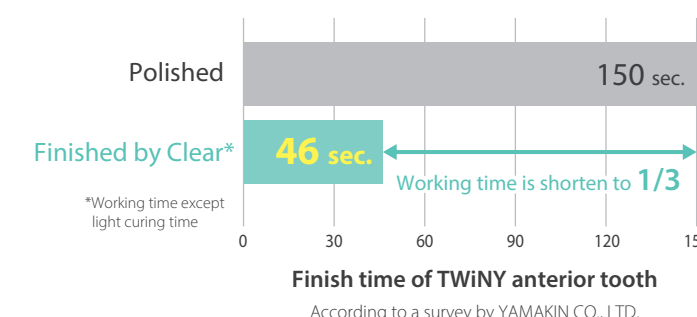
Easy glazing with easy steps.
There is no loss or chipping concern during polishing.

Shorten the working time with Nu:le Coat

Finish with polishing requires craftsmanship so polishing is a very valuable task.

However, depending on the level of proficiency, the finish may vary.

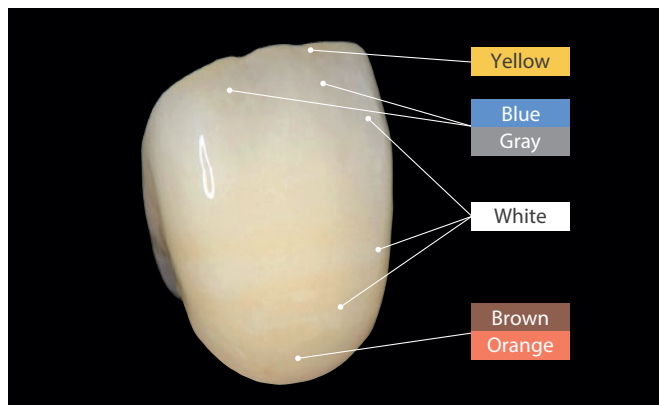
On the other hand, Nu:le Coat is easy to apply and provide glaze on the surface in a short period of time regardless of proficiency. The working time becomes 1/3 to achieve glaze on the surface.



Get More Aesthetic Qualities With Color Type

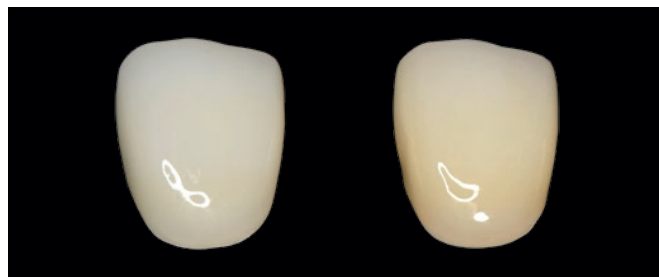
Wide Range of Color Line-up for Crown Characterizing

White, Gray, Brown, Yellow, Orange and Blue lineups allow for free characterization of crowns.



Shade plus

There are A plus, B plus, C plus, and D plus lineups that allow fine adjustment of the shade.



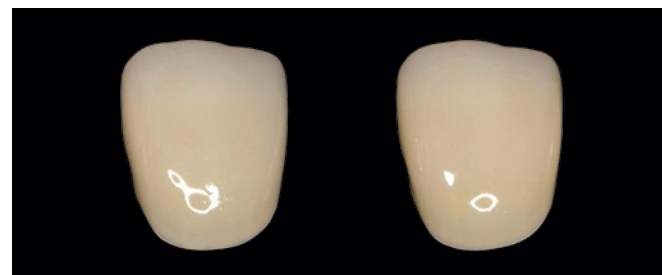
A2 Crown Applied 1 layer of A plus.



B2 Crown Applied 1 layer of B plus.



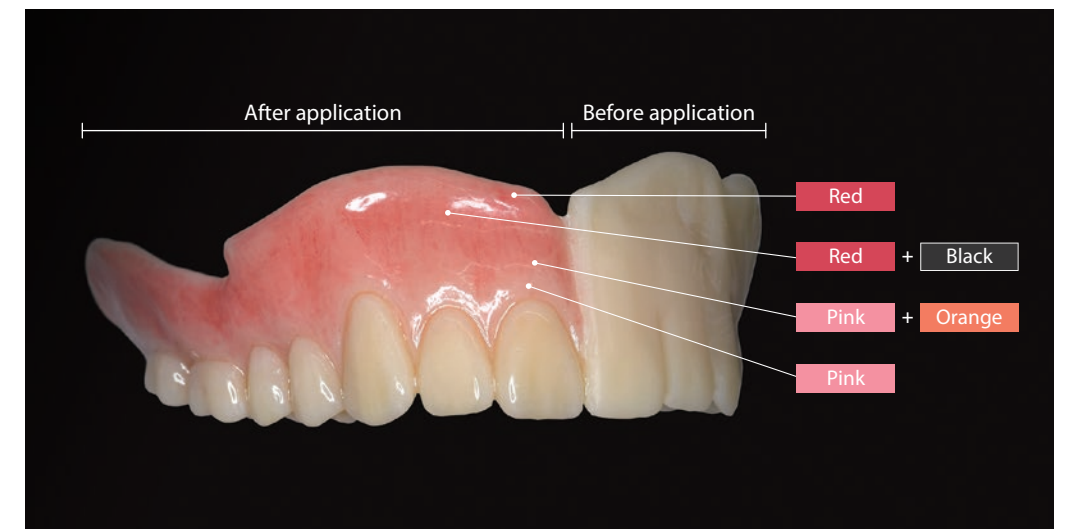
C2 Crown Applied 1 layer of C plus.



D2 Crown Applied 1 layer of D plus.

Gum Shades

There are also Gum shade line-up (Red, Pink and Black) for denture application or Gum expression.



Characterized resin frame by NuLe Coat Liquid Red, Pink, Black and Orange

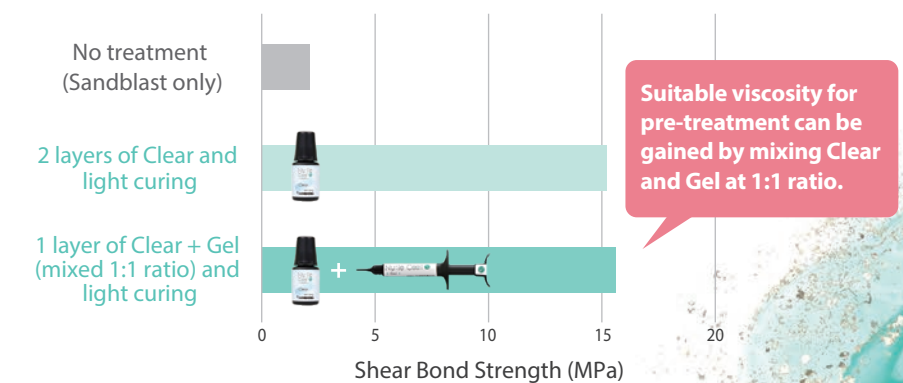
Plus One Application



Pre-treatment of PEEK before applying resin materials.

Super engineering plastics PEEK-based (PEEK, PEKK, etc.) have attracted attention in recent years for their ability to mitigate impact on bone in implant cases. By the combination of Clear and Gel, composite resin (e.g., Luna-Wing) and hybrid composite resin (e.g., TWiNY) can be built up on PEEK frame.

Shear Bond Test (PEEK and Opaque Resin)



Applied Clear and Gel (at 1:1 ratio) after sandblasting

Completion after TWiNY application



For Both Dental Laboratory and Chairside Use

Nu:le Coat can be used not only for the finishing of resin-based dental restorations but also for regular maintenance of resin-based dental restorations that have lost their glaze.

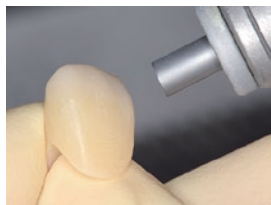
Procedure of Applying Nu:le Coat

*This product is for resin restoration only.
This product cannot be used for tooth substances.

For Laboratory Use



After shape modification



Roughen the surface
(Alumina Sandblast etc.)



Application of Nu:le Coat
(characterizing and glazing)



Light Curing
(60 sec. by LED CURE Master)



Completion

For Chairside Use



Filling composite



After light irradiation, shape
modification and roughening
the surface.



Application of Nu:le Coat
(glazing)



Light irradiation
*Light irradiators should have an output
peak wavelength of 400±20 nm, and also
should contain the purple LED



Completion

Point

Gel is recommended to use for the parts where need thickness.



1

Apply one layer of Clear as
base coat and light curing.

2



Apply Gel and light curing

For Color types, shake the bottle well before use as the
colouring material may settle.
Please avoid using this product for occlusal parts where
pressure is applied.

Nu:le Coat
Movie



Line-up

Nu:le Coat

Nu:le Coat

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(Coloring material for polymer-based crown, Bonding Material for Dental Resin)



Single Package

Nu:le Coat Liquid Clear (6ml)

Nu:le Coat Liquid (4ml) 15 colors

(White, Gray, Brown, Yellow, Orange, Blue, Red, Pink, Gum,
Dark Brown HV, Black, A plus, B plus, C plus, D plus



Single Package

Nu:le Coat Gel (2ml)

Set Package

Intro Set

- Nu:le Coat Liquid Clear (6ml) : 1 pc
- Nu:le Coat Gel (2ml) : 1 pc
- Round Brush : 1 pc
- Flat Brush : 1 pc
- Disposal Plate : 10 pcs

Regular Set

- Nu:le Coat Liquid Clear (6ml) : 1 pc
- Nu:le Coat Gel (2ml) : 1 pc
- Nu:le Coat Liquid (4ml) : White, Gray, Blue, Brown (1 pc each)
- Round Brush : 1 pc
- Flat Brush : 1 pc
- Disposal Plate : 20 pcs

Full Set

- Nu:le Coat Liquid Clear (6ml) : 1 pc
- Nu:le Coat Gel (2ml) : 1 pc
- Nu:le Coat Liquid (4ml) : White, Gray, Blue, Brown, Yellow, Orange,
A Plus, B Plus, C Plus, D Plus (1 pc each)
- Round Brush : 1 pc
- Flat Brush : 1 pc
- Disposal Plate : 30 pcs

Set Contents

Type	Gel	Liquid															
Color	Clear	Clear	White	Gray	Brown	Yellow	Orange	Blue	Red	Pink	Gum	Dark Brown HV	Black	A Plus	B Plus	C Plus	D Plus
Intro Set	●	●															
Regular Set	●	●	●	●	●			●									
Full Set	●	●	●	●	●	●	●	●						●	●	●	●

Related Products



Luna-Wing

Hybrid Composite Resin for C&B



TWiNY

Indirect composite resin



LED CURE Master

LED light cure apparatus

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.