

EN

COSMEDENT® www.cosmedent.com | 800.621.6729
Renamel® NANO+plus | LIGHT-CURED NANOFILL COMPOSITE

INSTRUCTIONS FOR USE

GENERAL CHARACTERISTICS

Renamel NANO+plus is Cosmedent's universal, light-cured, radio-paque, high strength, esthetic nanohybrid composite material that is compatible with the full line of **Renamel** products. **Renamel NANO+plus** mimics the translucency of natural tooth structure and is recommended as a universal composite for those dentists who only want to use a single composite.

DESCRIPTION

Renamel NANO+plus is a light-cured, nanofilled, radioopaque, highly polishable dental filling material per EN ISO 4049 (Type I/Class 2 / Group 1). **Renamel NANO+plus** cures with a LED or Halogen light at wavelength range of 400 – 500 nm. **Renamel NANO+plus** has a compressive strength > 300 MPa, flexural strength > 90 MPa, radiopacity > 1.0 mm and a depth of cure > 1.5mm.

COMPOSITION

Renamel NANO+plus contains submicron particles combined with more conventional filler technology. The larger particles in **Renamel NANO+plus** provide similar strength properties to microhybrid materials while exhibiting higher polishability. **Renamel NANO+plus** contains Bis-EMA, UDMA, TEGDMA and Bis-GMA (23%). The fillers contain barium glass, silicon dioxide and acrylic polymer (78% by weight and 60% by volume). Initiators, stabilizers and pigments are additional ingredients (< 1%). The particle size of the fillers range from 0.04 – 3 micron with a mean particle size of 0.7 microns.

ESTHETICS

Renamel NANO+plus is the most esthetic universal composite available. It is important to remember that nanofill composites will not hold their polish as long as microfill composites, so for ultimate esthetics you should overlay **Renamel NANO+plus** with **Renamel Microfill** (the enamel layer). **Renamel NANO+plus** is color matched to the VITA® shade guide and all **Renamel** composites and opacifiers.

HANDLING PROPERTIES

Renamel NANO+plus has excellent handling properties with its non-stick, no slump consistency. **Renamel NANO+plus** stays where you place it and is a great choice for Class IV restorations. Because of **Renamel NANO+plus**'s lifelike opacities translucent, it has a very natural appearance and will polish to a high shine when the proper polishing technique is followed.

INDICATIONS FOR USE

- Class V-dental restorations
- Direct veneering of anterior teeth
- Splinting
- Repair of composite or ceramic restorations

DISPENSING COMPOSITE MATERIAL

Syringe delivery:
 - Extrude composite onto a mixing pad by turning the handle slowly in a clockwise manner. Slice an increment of proper size with a sterile instrument and place.
 - Immediately replace syringe cap to prevent polymerization. If the extruded material is not used right away, cover the composite with a light protecting box such as our **ResinKeeper™**.

Unit Dose Delivery:

- Insert unit dose into dispensing gun and dispense composite material. Dispose of unit dose after use.

ANTERIOR PLACEMENT DIRECTIONS

Prior to the application of **Renamel NANO+plus**, the use of **Pink Opaque™** (from Cosmedent) may be necessary to achieve excessive color blockout such as tetracycline stains, the unsightly non-vital tooth and teeth with metal posts and cores.

① Prepare, etch and dry according to manufacturer's instructions.
 ② Place dental adhesive of choice, such as **Cosmedent's Complete™**, and polymerize.

③ **Renamel NANO+plus** should be placed in a light protecting box, such as the **ResinKeeper™**, to prevent pre-polymerization by ambient light. Slice composite into a ball, a cylinder or an elliptical shape (convenience form) as needed.

④ Place with a clean metal instrument onto the area to be restored and shaped. **Cosmedent's 8A and 8AL (long or short blade)** and **G-3** are excellent instruments for placement.
 Note: For instrumentation, titanium-coated composite instruments are desired because they will prevent composite material from sticking to the instrument.

⑤ If resin still sticks to the instrument, the instrument may be scratched or dirty. If your room is excessively warm and some stickiness occurs, simply wipe the instrument with a light alcohol swab and this will reduce stickiness completely.

⑥ Take your time and sculpt carefully. Slightly overcontour every restoration, except in the interproximal areas. Sculpt exactly to contour in these areas and it will greatly aid in developing the final contour of your restoration, and shorten your finishing and polishing time. **Cosmedent's IPC** instruments are excellent for interproximal sculpting.

⑦ If placing an incisal shade, the use of a titanium-coated instrument, such as **Cosmedent's Multi-Purpose** instrument, will help you create incisal lobes and grooves in your composite to make room for the application of your incisal shade.

⑧ Polymerize each surface for 20 – 40 seconds (Halogen or LED Lamp) and final cure restorations on all surfaces for 60 seconds. Do not try to cure to depths over 2 mm.

Note: Dentists tend to under-cure composites. You will get best results if you slightly over-cure.

IMPORTANT

PRODUCT

INFORMATION

Federal (U.S.) law restricts this device to sale by or on the order of a dentist.

Note: This product was developed for use in the dental sector and should be used in accordance with the instructions for use. The manufacturer does not accept liability for damage caused by its use for any other purpose. The user is also obliged to accept responsibility for any best results if you slightly over-cure.

INSTRUCTIONS FOR USE

GENERAL CHARACTERISTICS

Renamel NANO+plus is Cosmedent's universal, light-cured, radio-paque, high strength, esthetic nanohybrid composite material that is compatible with the full line of **Renamel** products. **Renamel NANO+plus** mimics the translucency of natural tooth structure and is recommended as a universal composite for those dentists who only want to use a single composite.

DESCRIPTION

Renamel NANO+plus is a light-cured, nanofilled, radioopaque, highly polishable dental filling material per EN ISO 4049 (Type I/Class 2 / Group 1). **Renamel NANO+plus** cures with a LED or Halogen light at wavelength range of 400 – 500 nm. **Renamel NANO+plus** has a compressive strength > 300 MPa, flexural strength > 90 MPa, radiopacity > 1.0 mm and a depth of cure > 1.5mm.

COMPOSITION

Renamel NANO+plus contains submicron particles combined with more conventional filler technology. The larger particles in **Renamel NANO+plus** provide similar strength properties to microhybrid materials while exhibiting higher polishability. **Renamel NANO+plus** contains Bis-EMA, UDMA, TEGDMA and Bis-GMA (23%). The fillers contain barium glass, silicon dioxide and acrylic polymer (78% by weight and 60% by volume). Initiators, stabilizers and pigments are additional ingredients (< 1%). The particle size of the fillers range from 0.04 – 3 micron with a mean particle size of 0.7 microns.

ESTHETICS

Renamel NANO+plus is the most esthetic universal composite available. It is important to remember that nanofill composites will not hold their polish as long as microfill composites, so for ultimate esthetics you should overlay **Renamel NANO+plus** with **Renamel Microfill** (the enamel layer). **Renamel NANO+plus** is color matched to the VITA® shade guide and all **Renamel** composites and opacifiers.

HANDLING PROPERTIES

Renamel NANO+plus has excellent handling properties with its non-stick, no slump consistency. **Renamel NANO+plus** stays where you place it and is a great choice for Class IV restorations. Because of **Renamel NANO+plus**'s lifelike opacities translucent, it has a very natural appearance and will polish to a high shine when the proper polishing technique is followed.

INDICATIONS FOR USE

- Class V-dental restorations
- Direct veneering of anterior teeth
- Splinting
- Repair of composite or ceramic restorations

DISPENSING COMPOSITE MATERIAL

Syringe delivery:
 - Extrude composite onto a mixing pad by turning the handle slowly in a clockwise manner. Slice an increment of proper size with a sterile instrument and place.
 - Immediately replace syringe cap to prevent polymerization. If the extruded material is not used right away, cover the composite with a light protecting box such as our **ResinKeeper™**.

Unit Dose Delivery:

- Insert unit dose into dispensing gun and dispense composite material. Dispose of unit dose after use.

ANTERIOR PLACEMENT DIRECTIONS

Prior to the application of **Renamel NANO+plus**, the use of **Pink Opaque™** (from Cosmedent) may be necessary to achieve excessive color blockout such as tetracycline stains, the unsightly non-vital tooth and teeth with metal posts and cores.

① Prepare, etch and dry according to manufacturer's instructions.
 ② Place dental adhesive of choice, such as **Cosmedent's Complete™**, and polymerize.

③ **Renamel NANO+plus** should be placed in a light protecting box, such as the **ResinKeeper™**, to prevent pre-polymerization by ambient light. Slice composite into a ball, a cylinder or an elliptical shape (convenience form) as needed.

④ Place with a clean metal instrument onto the area to be restored and shaped. **Cosmedent's 8A and 8AL (long or short blade)** and **G-3** are excellent instruments for placement.
 Note: For instrumentation, titanium-coated composite instruments are desired because they will prevent composite material from sticking to the instrument.

⑤ If resin still sticks to the instrument, the instrument may be scratched or dirty. If your room is excessively warm and some stickiness occurs, simply wipe the instrument with a light alcohol swab and this will reduce stickiness completely.

⑥ Take your time and sculpt carefully. Slightly overcontour every restoration, except in the interproximal areas. Sculpt exactly to contour in these areas and it will greatly aid in developing the final contour of your restoration, and shorten your finishing and polishing time. **Cosmedent's IPC** instruments are excellent for interproximal sculpting.

⑦ If placing an incisal shade, the use of a titanium-coated instrument, such as **Cosmedent's Multi-Purpose** instrument, will help you create incisal lobes and grooves in your composite to make room for the application of your incisal shade.

⑧ Polymerize each surface for 20 – 40 seconds (Halogen or LED Lamp) and final cure restorations on all surfaces for 60 seconds. Do not try to cure to depths over 2 mm.

Note: Dentists tend to under-cure composites. You will get best results if you slightly over-cure.

INSTRUCTIONS FOR USE

GENERAL CHARACTERISTICS

Renamel NANO+plus

is Cosmedent's universal, light-cured, radio-paque, high strength, esthetic nanohybrid composite material that is compatible with the full line of **Renamel** products. **Renamel NANO+plus** mimics the translucency of natural tooth structure and is recommended as a universal composite for those dentists who only want to use a single composite.

DESCRIPTION

Renamel NANO+plus

is a light-cured, nanofilled, radioopaque, highly polishable dental filling material per EN ISO 4049 (Type I/Class 2 / Group 1).

COMPOSITION

Renamel NANO+plus

contains submicron particles combined with more conventional filler technology. The larger particles in **Renamel NANO+plus** provide similar strength properties to microhybrid materials while exhibiting higher polishability.

ESTHETICS

Renamel NANO+plus

is the most esthetic universal composite available. It is important to remember that nanofill composites will not hold their polish as long as microfill composites, so for ultimate esthetics you should overlay **Renamel NANO+plus** with **Renamel Microfill** (the enamel layer). **Renamel NANO+plus** is color matched to the VITA® shade guide and all **Renamel** composites and opacifiers.

HANDLING PROPERTIES

Renamel NANO+plus

has excellent handling properties with its non-stick, no slump consistency. **Renamel NANO+plus** stays where you place it and is a great choice for Class IV restorations. Because of **Renamel NANO+plus**'s lifelike opacities translucent, it has a very natural appearance and will polish to a high shine when the proper polishing technique is followed.

INDICATIONS FOR USE

General

Syringe delivery:
 - Extrude composite onto a mixing pad by turning the handle slowly in a clockwise manner. Slice an increment of proper size with a sterile instrument and place.
 - Immediately replace syringe cap to prevent polymerization. If the extruded material is not used right away, cover the composite with a light protecting box such as our **ResinKeeper™**.

Unit Dose Delivery:

- Insert unit dose into dispensing gun and dispense composite material. Dispose of unit dose after use.

Anterior Placement Directions

Prior to the application of **Renamel NANO+plus**, the use of **Pink Opaque™** (from Cosmedent) may be necessary to achieve excessive color blockout such as tetracycline stains, the unsightly non-vital tooth and teeth with metal posts and cores.

① Prepare, etch and dry according to manufacturer's instructions.
 ② Place dental adhesive of choice, such as **Cosmedent's Complete™**, and polymerize.

③ **Renamel NANO+plus** should be placed in a light protecting box, such as the **ResinKeeper™**, to prevent pre-polymerization by ambient light. Slice composite into a ball, a cylinder or an elliptical shape (convenience form) as needed.

④ Place with a clean metal instrument onto the area to be restored and shaped. **Cosmedent's 8A and 8AL (long or short blade)** and **G-3** are excellent instruments for placement.
 Note: For instrumentation, titanium-coated composite instruments are desired because they will prevent composite material from sticking to the instrument.

⑤ If resin still sticks to the instrument, the instrument may be scratched or dirty. If your room is excessively warm and some stickiness occurs, simply wipe the instrument with a light alcohol swab and this will reduce stickiness completely.

⑥ Take your time and sculpt carefully. Slightly overcontour every restoration, except in the interproximal areas. Sculpt exactly to contour in these areas and it will greatly aid in developing the final contour of your restoration, and shorten your finishing and polishing time. **Cosmedent's IPC** instruments are excellent for interproximal sculpting.

⑦ If placing an incisal shade, the use of a titanium-coated instrument, such as **Cosmedent's Multi-Purpose** instrument, will help you create incisal lobes and grooves in your composite to make room for the application of your incisal shade.

⑧ Polymerize each surface for 20 – 40 seconds (Halogen or LED Lamp) and final cure restorations on all surfaces for 60 seconds. Do not try to cure to depths over 2 mm.

Note: Dentists tend to under-cure composites. You will get best results if you slightly over-cure.

INSTRUCTIONS FOR USE

General

Syringe delivery:
 - Extrude composite onto a mixing pad by turning the handle slowly in a clockwise manner. Slice an increment of proper size with a sterile instrument and place.
 - Immediately replace syringe cap to prevent polymerization. If the extruded material is not used right away, cover the composite with a light protecting box such as our **ResinKeeper™**.

Unit Dose Delivery:

- Insert unit dose into dispensing gun and dispense composite material. Dispose of unit dose after use.

Anterior Placement Directions

Prior to the application of **Renamel NANO+plus**, the use of **Pink Opaque™** (from Cosmedent) may be necessary to achieve excessive color blockout such as tetracycline stains, the unsightly non-vital tooth and teeth with metal posts and cores.

① Prepare, etch and dry according to manufacturer's instructions.
 ② Place dental adhesive of choice, such as **Cosmedent's Complete™**, and polymerize.

③ **Renamel NANO+plus** should be placed in a light protecting box, such as the **ResinKeeper™**, to prevent pre-polymerization by ambient light. Slice composite into a ball, a cylinder or an elliptical shape (convenience form) as needed.

④ Place with a clean metal instrument onto the area to be restored and shaped. **Cosmedent's 8A and 8AL (long or short blade)** and **G-3** are excellent instruments for placement.
 Note: For instrumentation, titanium-coated composite instruments are desired because they will prevent composite material from sticking to the instrument.

⑤ If resin still sticks to the instrument, the instrument may be scratched or dirty. If your room is excessively warm and some stickiness occurs, simply wipe the instrument with a light alcohol swab and this will reduce stickiness completely.

⑥ Take your time and sculpt carefully. Slightly overcontour every restoration, except in the interproximal areas. Sculpt exactly to contour in these areas and it will greatly aid in developing the final contour of your restoration, and shorten your finishing and polishing time. **Cosmedent's IPC** instruments are excellent for interproximal sculpting.

