

INSTRUCTIONS FOR USE

Curing times with Depth of Cure

Nuance Universal		Depth of Cure (at 470 nm)	
Type	Curing Time	A1, A2, A3, A3.5, B1, B2, C3, BL	OA2
LED / Halogen	20 sec	1.5 mm	1 mm
Plasma Arc	5 sec		

Flexural Strength*	103 Mpa
Filler Load	82% wt
Particle distribution	
micron	74%
submicron	19%
nano	7%
Barcol Hardness	95
Coefficient of Thermal Expansion	16 ppm
Radio Opacity*	2mm Al
Depth of Cure*	2.5 mm

* per ISO 4049:2009

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Symbols Glossary available at: denmat.com/symbols

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Description: Nuance is a light-cured micro hybrid composite resin designed for anterior or posterior restorations. Nuance's unique formulation helps you create restorations which look like the natural tooth while delivering excellent physical properties with true-shade matching abilities. Nuance is a simple way to create beautiful esthetic restorations.

CAUTION: Wear protective gloves while using this product.

CAUTION: Wear eye protection while using this product.

CAUTION: This product cannot be used in children, pregnant or breast-feeding women.

Indications:

Nuance Universal Composite is ideal for the following applications:

- Direct restorations of anterior or posterior teeth (Class I – Class V)
- Diastema closures
- Intraoral repairs of fractured crowns / bridges

Contraindications:

Patients allergic or hypersensitive to methacrylate monomers

Incompatibilities:

For pulp protection or temporary sealing, do not use materials containing eugenol. Eugenol increases the risk of retarding the bonding system curing process.

Precautions:

1. Material Safety

- Patients that have a history of hypersensitivity to methacrylate monomers should avoid the use of this product. If hypersensitivity occurs, discontinue use of the product and consult a physician.
- Clinician is advised to wear gloves to prevent the occurrence of hypersensitivity.
- Use caution to prevent the product from coming in contact with skin or eyes.
 - If product gets in the eye, flush with copious amounts of water and consult a physician.
 - If product comes in contact with the skin, immediately wipe with alcohol and rinse with copious amounts of water.
- Use caution to avoid patient ingestion. If ingested please contact physician immediately.

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- To avoid cross contamination, do not extrude syringe material directly into patient's mouth. Dispense product onto a mixing pad prior to placement.
- Do not reuse flowable needle tips.

2. Application Precautions

- Do not mix Nuance with other competitor composite resins. Mixing competitive materials increases the risk of a failed restoration. Layering Nuance is acceptable.
- When preparing the cavity, remove any existing lining material.
- For full polymerization, refer to the depth of cure chart and always hold the dental curing light tip as near and as vertical to the composite resin as possible.
- Verify the output of your dental curing light for proper intensity, to ensure complete polymerization. For best curing results use DenMat's Sapphire Plasma Arc Light.

Curing Light	Light	Wavelength range and light intensity
Conventional	Halogen Lamp	Light intensity of 300-550 mW/cm ² in wavelength range from 400-415 nm
Sapphire® Plasma Arc Light	Xenon Lamp	Light intensity of more than 2000 mW/cm ² in wavelength range from 400-515 nm, and light intensity of more than 450 mW/cm ² in wavelength range from 400-430 nm
LED	Blue LED	Light intensity of more than 300 mW/cm ² in wavelength range from 400-515 nm
FLASH ^{lite} 2.0	LED	Light intensity of 1,100 mW/cm ² ±200 in wavelength range from 460-480 nm
FLASH ^{lite} Magna 4.0	LED	Light intensity of 1,300 mW/cm ² ±200 mW in wavelength range of 440-490 nm

- Nuance will slowly polymerize in ambient light, and should be used shortly after extrusion. It is recommended that overhead lights be turned down. Please discard any material which has polymerized prematurely.
- Nuance should be at room temperature when dispensing and applying.

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3. Storage Precautions

- Nuance should not be used past the expiration date listed on the syringe.
- Nuance should be stored at 2 - 25°C / 36 - 77°F when not in use.
- Keep away from direct sunlight, extreme heat, or open flame.
- After extrusion, securely place the cap onto the syringe. This will protect Nuance from ambient light, as well as foreign objects.

Main Ingredients:

- Silanated barium glass powder
- Bis-phenol A diglycidylmethacrylate (Bis-GMA)
- Triethylene glycol dimethacrylate
- DL-Camphorquinone

Clinical Procedure

1. Clean and prepare the tooth in the manner standard to your office's protocol.
2. Apply bonding agent per the manufacturer's instructions.
3. Place and light-cure Nuance Composite.
 - To reduce micro leakage and sensitivity, apply Nuance flowable as a liner in the cavity preparation. Light cure per instruction table.
 - Choose the appropriate shade that best matches the surrounding tooth. For optimal results, layer Nuance Universal and Nuance Universal Enamel shades.
 - Place the chosen product into the cavity, and light cure per instruction table.
4. Contour the restoration and adjust the occlusion using a fine diamond point. Polish with silicone rubber points or polishing discs.

Note – Nuance should not be bulk cured, beyond increments of the recommended curing depth.