

Instruction For Use

(€ 0120

NextDent™ C&B (Crown & Bridge)

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Preface

The following instructions for use are for dentists and dental technicians who use NextDent™ C&B as a crown and brigde material. NextDent™ C&B is intended exclusively for professional dental work. This instruction for use provides also information about safety and environmental aspects, a safety datasheet is available on www.nextdent.com and at local dealers. In case more information is needed about the processing of NextDent™ C&B material contact the NextDent Office. See also information at the end of this document.

1. Introduction

NextDent™ C&B is a monomer based on Acrylic esters for manufacturing of 3D-printed crowns and bridges. Suitable for printing all types of crowns and bridges. NextDent™ C&B is a class IIa and CEcertified material.

2. Description and effects

NextDent™ C&B can be used in combination with with all laser and DLP based 3D printers which support NextDent materials.

3. Contra-indication

NextDent™ C&B should not be used for any other purpose than crown and bridge work only. Any deviation from this instruction for use may have negative effect on the chemical and physical quality of NextDent™ C&B. In case of an allergic reaction, please contact a medical physician.



4. Hazard & Precaution (H & P phrases)

Inhalation:

Irritating to respiratory system. High atmospheric concentrations may lead to irritation of the respiratory tract, dizziness, headache and anesthetic effects.

Skin contact:

May cause sensitization by skin contact. Irritating to skin, repeated and/or prolonged contact may cause dermatitis.

Eye contact:

High vapor concentration may cause irritation.

Ingestion:

Low oral toxicity, but ingestion may cause irritation of the gastrointestinal tract.

Protection:

Wear protection when handling NextDent™ C&B. Protective glasses and nitrille gloves are advised. Information about the handling of the product can be found in the safety datasheet, which is available on www.nextdent.com.

Hazard Phrases: H317 May cause an allergic skin reaction

H413 May cause long lasting harmful effect to aquatic life

5. Storage conditions, expiry date and transport

Store the product in the original packaging at roomtemperature in a dry and dark area, preferably not exceeding 25°C. Close the packaging after each use. The expiry date of the product is mentioned on the product label. In case of exceeding the expiry date, the product is no longer guaranteed in terms of treatment.

6. Processing NextDent™ C&B

We advise to use nitrille gloves when using NextDent™ C&B until post-curing. Before using NextDent™ C&B, make sure to shake the product in the original packaging for approximately 5 minutes. Color deviations may occur when shaken insufficiently.

Make sure that you work as clean as possible, dirty reservoirs or machines can cause deformation and therefore failure of the printed objects!

Pour the liquid material in the reservoir of the 3D-printing machine. Start the machine. Follow the instructions for use for the printer. These are delivered together with the pinter. When the machine has finished its program remove the building platform from machin Place the platform on some paper or cloth with the builded jobs facing upwards. The printed jobs can know be removed from the platform using a putty knife. Rinse the printed jobs twice in an alcohol solution (96%) to get rid of any excess material, making use of an ultrasonic bath. Rinse the first time for three minutes, second time for two minutes The second rinse must be carried out with a clean alcohol solution (96%). Rinsing in alcohol solution should not take longer than 5 minutes, as this will cause defects in the printed parts.

After cleaning make sure the printed part is dry and free of alcohol residu. Then place the printed jobs in a UV- light curing box for final polymerization. Time of curing depends strongly on type of lamps/ lightbox used. The final properties and also final color depend on the post curing process. Post-curing is an UV-light treatment to ensure that NextDent materials obtain full polymer conversion, through this the residual monomer is reduced to a minimum and the highest mechanical properties are obtained. This procedure is a necessary step to produce a biocompatible end-product. We strongly advice to make use of the Vertex-DentalTM LC-3DPrint Box.



Specific curingtime NextDent™ C&B

NextDent Material	Time	Wavelength	Total output UV-A light	UV lightbox output W*sec=J
C&B	30 minutes	Blue UV-A 315-400 nm	72 Watt	129,6 kJ

The specifications of the NextDent materials are determined on the basis of test plates, produced on a DLP 405 3D printer. With the corresponding settings which are registered in the software. The unit used at NextDent has 4x 18W/71 lamps (Dulux L Blue) and 4x 18W/78 lamps (Dulux blue UV-A). The calculated output is based on the UV light UVA lamp Blue. Please notice that the light sources and the printing machine need a routine maintenance following the manufacturer instructions.

7. Finishing

Remove any support structures and finish jobs if necessary, using conventional dental methods and instruments. Differences in color nuance may occur due to production in batches of the raw material and product or inadequate shacking of the original packaging before use.

8. Plastic and packaging waste

The product NextDent™ C&B in its polymerized form is not environmentally harmful. Residual waste material in its liquid state should be delivered to a collection point for waste material.

9. Cleaning and desinfecting instructions

NextDent 3D-printing material should be cleaned with non chemical products. If disinfecting before intended use is required, an ethanol solution can be used.

10. Delivery units

The product NextDent™C&B is available in the following packaging size: 1000 gr.

Explanation of symbols on labelling

(€ ₀₁₂₀ : CE mark with NB number : Keep away from sunlight

: Batch number of product : Consult instructions for use

: Manufacturer : Use-by date

Distributor

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Manufacturer

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