

Instruction For Use



NextDent™ Ortho Clear

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Preface

The following instructions for use are for dental technicians who use NextDent™ Ortho Clear as a dental material. NextDent™ Ortho Clear 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™ Ortho Clear material contact the NextDent Office. Also see information at the end of this document.

1. Introduction

NextDent™ Ortho Clear. is a monomer based on Acrylic esters for manufacturing of 3D-printed dental appliances such as splints and retainers normally intended for temporary use. NextDent™ Ortho Clear is Class I CE-certified.

2. Description and effects

NextDent™ Ortho Clear can only be used in combination with all laser and DLP based 3D printers which support NextDent materials.

3. Contra-indication

NextDent™ Ortho Clear should not be used for any other purpose than temporary dental appliances only. Any deviation from this instruction for use may have negative effect on the chemical and physical quality of NextDent™ Ortho Clear. 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™ Ortho Clear. Protective glasses and nitrile 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:	H315	Causes skin irritation
	H317	May cause an allergic skin reaction
	H319	Cause serious eye irritation
	H400	Very toxic to aquatic life.
	H410	Very toxic to aquatic life with long-lasting effects.

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™ Ortho Clear

We advise to use nitrile gloves when using NextDent™ Ortho Clear until post-curing. Before using NextDent™ Ortho Clear, make sure to shake the product in the original packaging for approximately 5 minutes.

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 3D printer. When the machine has finished its program remove the building platform from machine. Place the platform on some paper or cloth with the builded jobs facing upwards. The printed jobs can now be removed from the platform. Rinse the printed jobs twice in an alcohol solution (96%) to get rid of any excess material, making use of an ultrasonic bath. 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 part. 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 depend on the post curing process. Optimal properties are established using a UV-light curing unit of 220 watts. And a curing time of 10 minutes. Please notice that the light sources and the printing machine need a routine maintenance following the manufacturer instructions.

NextDent Material	Time min.	Wavelength nm	Total output UV-A light Watt	UV lightbox output W*sec=J kJ
Ortho Clear	10	Blue UV-A 315-400	72	129,6

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™ Ortho Clear 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. Instructions for cleaning and disinfecting

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™ Ortho Clear is available in the following packaging sizes: 1000 gr.

Explanation of symbols on labelling



: CE mark



: Keep away from sunlight



: Batch number of product



: Consult instructions for use



: Manufacturer



: Use-by date

Distributor

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