



Instruction For Use

**NextDent™ Ortho IBT
(Indirect Bonding Tray)****Preface**

1. Introduction
 2. Description and effects
 3. Contra-indication
 4. Hazard and Precaution (H&P phrases)
 5. Storage conditions, expiry date and transport
 6. Processing/ postcuring
 7. Finishing
 8. Plastic and packaging waste
 9. Cleaning and disinfecting instructions
 10. Delivery units
- Explanation of symbols on labelling
Distributor
Manufacturer

Preface

The following instructions for use are for dentists, orthodontists and dental technicians who use NextDent™ Ortho IBT as a Indirect Bonding Tray material. NextDent™ Ortho IBT 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 IBT material contact the NextDent Office. See also information at the end of this document.

1. Introduction

NextDent™ Ortho IBT is a monomer based on Acrylic esters for manufacturing of 3D-printed Indirect Bonding Trays. Suitable for printing all types of Indirect Bonding Trays. NextDent™ Ortho IBT is a class I material and CE-certified.

2. Description and effects

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

3. Contra-indication

NextDent™ Ortho IBT should not be used for any other purpose than for dental work only. Any deviation from this instruction for use may have negative effect on the chemical and physical quality of NextDent™ Ortho IBT. 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 IBT. 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
	H335	May cause respiratory irritation
	H401	May cause long lasting harmful effect to aquatic life
	H411	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 IBT

We advise to use nitrile gloves when using NextDent™ Ortho IBT until post-curing.

Before using NextDent™ Ortho IBT, 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 printer. When the machine has finished its program remove the building platform from the 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 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 part.

After cleaning, dry the parts and 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. We strongly advice to make use of the Vertex-Dental™ LC-3DPrint Box.

Specific curing time NextDent™ Ortho IBT

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

The specifications of the NextDent materials are determined on the basis of test plates, produced on the D30 printer from Rapid Shape. With the corresponding settings which are registered in the software. 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 shaking of the original packaging before use or insufficient post

8. Plastic and packaging waste

The product NextDent™ Indirect Bonding Tray 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 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™ Ortho IBT is available in the following packaging size: 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

NextDent B.V. Centurionbaan 190 3769 AV Soesterberg The Netherlands	Telefoon E-mail Website	: +31 88 616 04 40 : info@nextdent.com : www.nextdent.com
--	-------------------------------	---

Manufacturer

Vertex-Dental B.V. Centurionbaan 190 3769 AV Soesterberg The Netherlands	Telefoon E-mail Website	: +31 88 616 04 40 : info@vertex-dental.com : www.vertex-dental.com
---	-------------------------------	--