

zDental Try In

Instruction for Use

Product Discription:

zDental Try In is a light-curing resin for the generative manufacturing of try-ins for full and partial dentures using 3D LCD printers utilizing wavelengths between 385nm–405nm. zDental Try In has Excellent mechanical properties that is intended for evaluation of fit, occlusion, esthetics, and phonetics during try-in appointments.

Intended Use:

- Try-ins for full and partial dentures
- Transfer and grinding templates
- Correction and occlusal impressions

Color and Package:

Ivory liquid, 500ml/bottle

Contra-indications:

zDental Try In contains (meth)acrylates and phosphine oxide. zDental Try In should therefore not be used in patients with a known hypersensitivity (allergy) to these ingredients. In case of an allergic reaction, please contact a medical physician.

Use and Safety Information:

1. Wear nitrile rubber gloves and a face mask when using this resin.
2. Keep the room ventilated.
3. Swallowing such as eating and drinking is forbidden in the printing place.
4. Avoid liquid or uncompletely cured resin directly contact with skin. If contact with skin occurs, wipe resin away and wash thoroughly with cold water, use hand sanitizer or soap to assist in washing. If the users still feel uncomfortable, please see a doctor immediately.
5. If the user accidentally splashes the resin in the eyes, flush with plenty of water and seek medical attention immediately.

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6. More safety details please refer MSDS of this resin.

The good using temperature for this resin is 21 – 25 °C. Keep the resin away from direct sunlight or any kind of UV light.

Processing printed parts:

Mixing resin before using:

In Bottle: Shake bottle vigorously prior to pouring into resin tank.

In resin tank: Stir resin with a soft spatula. Take care not to damage the film of the resin tank.

After try-ins is printed, it is recommended to restore the remaining resin into bottle and avoided leave the resin in the resin tank for a long time.

Preparation:

Prepare a print job using slicing software, such as Uniz Dental, Uniz Desktop or Uniz Maker, in depending with the UNIZ printer type. zDental Splint can be printed in layer thickness 100µm. For more information, please refer to the Uniz Dental Software Guide (www.uniz.com).

Printing:

Turn on the printer and ensure it well. Check and clean build platform, resin tank, LCD printing screen. Put the resin tank filled with mixed resin onto the LCD printing screen, and fix the tank well onto the screen. Upload the slicing file into printer through USB or WIFI, then start printing. For more information, refer to the printer instructions (www.uniz.com).

Post-processing:

Detaching printed parts:

Once the printing process has ended, a dripping time of resin approximately 10 min is recommended, using a soft spatula to remove the resin residue on the build platform into resin tank. Then, carefully detach the printed objects from the build platform.

Washing:

Wash parts in IPA bath with at least 98% purity. Best results are achieved when using a pre and post wash. UWash ultrasonic cleaner is recommended for washing parts.

- Pre-wash bath: 1 minute. After using, if the IPA density increases 5%, alternate clean IPA for this pre-washing step.

- Post-wash bath: 1 minute, always use clean IPA for each post-washing step.

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If necessary, a dedicated soft brush can be used to help for removing residual resin.

Drying:

Use compressed air to dry parts. If residual resin remains, repeat the “washing-drying” steps.

Ensure parts to dry thoroughly before post-curing.

Post-Curing:

Post-curing is an UV-LED light treatment to ensure that printed parts obtain optimal polymer conversion, decreasing the residual monomer of printed parts to a minimum and obtaining the required mechanical properties and surface properties.

UCure, a post-cured device from UNIZ, is recommended to cure parts. Both the two sides of the printed parts are needed to be post-cured. Firstly, cure the side of printed parts and allow the printed parts to cool down to room temperature, then cure the other side and cool the printed parts down to room temperature for further operation. Insufficient cooling can distort the shape of the printed parts. Finally, Remove support structures from the part.

- One side: 15 minute, level 3, UCure

- The Other side: 15 minute, level 3, UCure

Finishing and Polishing:

Use a fine-toothed carbide bur or wheel rotary and handpiece to sand the support stubs. Once the surface is finished to satisfaction, polish and smooth the outside of printed parts for patient comfort.

For achieving a high gloss surface, the printed parts should first be pre-polished with pumice stone. Then remove any pumice dust and remnants under running water with a dedicated soft brush. Finally, use a buffer and high-lustre polishing compound without exerting excessive pressure to polish the object to a high gloss shine surface.

Final cleaning:

Clean the printed parts thoroughly. Firstly, use a dedicated soft toothbrush with neutral soap and room temperature water to clean the printed parts. Finally, soak the pre-cleaned parts into unheated water and clean it with ultrasound bath.

Storage:

Stored in dark place where avoid direct sunlight or any kind of UV light, environment temperature is recommended around 15 to 28°C , and environment humidity is less than 45%RH.

Do not use resin which exceeds the expiry date.

Disposal:

Dispose liquid resin waste in accordance with local regulations.

The information and data stated herein are based upon tests in our lab and are considered to be reliable and accurate. This information and data are used for reference only, no warranty as a legal basis. Use by customers should be tested by themselves firstly.