



Printer compatibility 385nm (UV)



Health hazard



Use by date



Batch number



Product reference



Store at 15°C - 30°C



Avoid direct sunlight



Instructions for use



Caution. See references

Instructions For Use (IFU) - DentaBASE – Part Number: 03569

Introduction:

The following instructions for use are for dental professionals who use Asiga DentaBASE as a material for denture bases. This instruction for use also provides information about safety and environmental aspects. In case more information is needed, contact the reseller.

Intended Use & Indications:

Asiga DentaBASE is intended exclusively for professional dental work. Asiga DentaBASE is a 3D print resin intended for the manufacturing of 3D printed denture bases. The denture bases produced are suitable for dental indications including removable dentures on adult population.

Description & Effects:

Asiga DentaBASE is intended be used in combination with DLP based 3D printers (i.e. Asiga Max Series or Asiga Pro Series) that support Asiga resins. Printer and resin must be optimized with respect to each other in order to produce complete and precise printed parts. If the printer and resin are not optimized with respect to each other this may have an adverse effect on the accuracy and physical quality of printed parts. DLP based 3D printers and post-curing lightboxes make use of a light source to polymerize the Asiga resin. Therefore, operators are advised to wear UV protective glasses when operating a 3D printer and/or lightbox. Differences in colour nuance may occur due to: production in batches; inadequate shaking and mixing of the original packaging before use; inadequate stirring in the DentaBASE resin before use; insufficient post-curing.

Contra-Indications:

Asiga DentaBASE should not be used for any other purpose than as a 3D print resin for the manufacturing of printed denture bases. Any deviation from this instruction for use may have an adverse effect on the chemical and physical quality of Asiga DentaBASE. In case of an allergic reaction, please contact a medical physician.

Hazard & Precautions:

Please refer to Asiga product safety data sheet for DentaBASE. For material SDS or technical assistance, contact your Asiga resellers or open a support ticket in your account online <https://www.asiga.com/accounts/support/>

Processing & Post-Curing:

Ensure the 3D printer is clean prior to use, including the imaging area and any optical surfaces. Ensure the material tray is clear of solid debris prior to commencing a print. The presence of solid particles in the resin may cause deformation or failure of the printed objects. Nitrile gloves should be worn at all times when handling Asiga liquid resins up until the finishing step. Avoid contact with skin. If contact with skin occurs, wash thoroughly with cold soapy water. If contact with eyes occur, remove any contact lenses and flush with cold water and seek immediate medical assistance.

Mixing Before Use:

In Bottle: Agitate/shake bottle vigorously prior to pouring for at least one minute.
 In Material Tray: Stir material with a soft spatula. Take care not to damage the film of the Material Tray. This step is necessary to re-disperse the (possible) pigment sediment from the bottom of the vessel. Colour deviation and print failures may occur if insufficiently mixed.

Fill Material Tray:

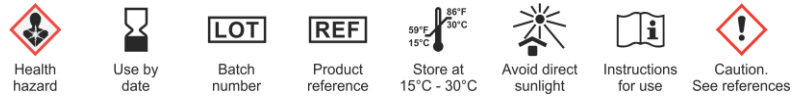
Ensure the temperature of the resin is between 15 and 30°C / 59 and 86°F and prevent exposure to direct sunlight. Pour the resin into the material tray of the 3D printer.

Printer Settings:

Asiga DentaBASE is optimised to build parts using light with 385nm wavelength. For Printer Settings, See manual or user guides of Asiga 3D Printers (Asiga Max Series or Asiga Pro Series). Ensure the film of the Material Tray is clear of any debris before starting the print. Ensure you are using the latest material ini file. You can access the latest material ini file for this material in your Asiga account online here: https://www.asiga.com/accounts/#tab_material



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Washing:

Wash parts in at least 98% pure isopropyl alcohol (IPA) in a well ventilated area. Best results are achieved when using a pre and post wash.

1. Using an ultrasonic cleaning device:
 - Pre-wash bath: 2 minutes.
 - Post-wash bath: 2 minutes.

Important: Ensure a dedicated IPA bath is used for washing DentaBASE parts. Do not wash in IPA that has previously been used for washing other materials. Allow parts to dry thoroughly before post-curing.

Post-Curing:

1. After washing and drying, let the printed parts rest for at least 30 minutes to ensure that the printed parts are free of alcohol residue.
2. Place the printed parts in UV curing unit "NK Optik Otoflash G171" for 2000 flashes.
3. Turn parts over and allow to cool.
4. Cure for a further 2000 flashes. Total: 4000 flashes (2 x 2000 flashes each side).

Post-curing is an UV-light treatment to ensure that DentaBASE printed parts obtain optimal polymer conversion. Through this the residual monomer is reduced to a minimum and the required mechanical properties are obtained. We advise use of the NK Optik Otoflash G171 post-curing box. Place parts inside the G171 Otoflash chamber on the support mesh, do not use a plastic tray inside the chamber. Inert gas is not required. Please see NK Optik Otoflash G171 user guide.

Soaking:

After post-curing, soak DentaBASE parts in fresh drinkable water at room temperature for 60 minutes.

Bonding of Teeth:

Artificial teeth printed in Asiga DentaTOOTH (supplied separately) may be bonded to Asiga DentaBASE printed parts. Artificial teeth may be bonded either before or after the post-curing step. After bonding teeth using DentaBASE as the adhesive, the post-curing & soaking processes defined above must be performed again. The following procedure is recommended: After the DentaBASE components are printed, washed and dried according to the instructions in this document, apply fresh DentaBASE liquid resin to the printed DentaBASE part where the teeth interface, and apply the teeth in place over the resin. Apply sufficient DentaBASE resin to fill the bonding gap. Wipe excess resin away with a dry lint-free cloth. Perform the post-curing and soaking steps defined in this document. Note the bonding process is to be performed at ambient temperature to ensure the correct colour is achieved.

Finishing:

Remove any support structures and finish cured parts, if necessary, using conventional dental methods and instruments. Please use specialized rotary instruments for machining and polishing plastic materials. Make sure you do not exceed the maximum rotation speed as suggested by the instrument manufacturer, during finishing. DentaBASE printed cured parts should be cleaned with water or wiped clean with ethanol.

Storage Conditions, Expiry Date & Transport:

Store the resin in the original packaging at room temperature in a dry, cool and dark area. Close the packaging after each use. The expiry date of the product is mentioned on the product label along with the lot number. Store on printer for up to 4 weeks with hood closed or store in bottle for up to 36 months in a cool dark place. The product performance is no longer guaranteed once the expiry date is exceeded. Do not expose to UV-light. Standard transport conditions apply to this product. There are no restrictions for transport related to hazardous substances.

Waste Disposal:

Asiga resin in its polymerized form is not environmentally harmful thus can be disposed of in general waste. Asiga resin in its liquid state should be treated as chemical waste. Special disposal requirements are applicable, check with your local, federal, or other regulatory agencies for disposal requirements.

Information for Dental Professionals & Patients:

The following information should be transferred from dental professional to patient:

1. Periodic check-ups by a dentists or denturist are required to monitor changes in the form & structure of the residual ridges of the patient that uses a denture.
2. In case of breakage of a denture, potential damage to the mucosa, the palate, or other parts of the patient's mouth or esophagus can occur. Contact a dentist.
3. In case of an allergic reaction, contact a medical physician.
4. Asiga DentaBASE denture bases can be cleaned with non-aggressive & non-abrasive dental cleaning products.



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Rx Only (US):

Caution: Federal law restricts this device to sale by or on the order of a dentist.

Reporting of Serious Incidents (EU):

For any serious incident that has occurred to the printed devices should be reported to the manufacturer & the competent authority of the Member State in which the user and/or patient is established.

Delivery Units:

Asiga DentaBASE is available in 1 colour only: Pink, 1kg.

