

Instruction for Use

Ultracur3D® DM 2505

The following Instruction for Use is for dental professionals who use: **Ultracur3D® DM 2505** as a technical dental model material.

The safety data given in this publication is for information purposes only and does not constitute a legally binding Material Safety Data Sheet (MSDS). The relevant MSDS can be obtained upon request from your supplier or you may contact BASF directly at sales@basf-3dps.com.

For more information, please refer to the country specific MSDS for advice.

Manufacturer

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Storage Conditions and Disposal Considerations

Keep container tightly closed in a room temperature, well-ventilated place. Keep container dry. If Material is not being used fill it back through a filter in the corresponding material bottle. The filter prevents to fill cured pieces or failed prints back into the bottle. Ultracur3D® DM 2505 must be disposed of or incinerated in accordance with local regulations.

For more information, please refer to the country specific MSDS for advice.

Delivery units

Ultracur3D® DM 2505 is available in the following packaging sizes: 1 kg, 5 kg and 10 kg (available soon).

The data contained in this publication are based on our current knowledge and experience. They do not constitute an agreed contractual quality of the product and, in view of the many factors that may affect processing and application of our products, do not relieve processors from carrying out their own investigations and tests. The agreed contractual quality of the product at the time of transfer of risk is based solely on the data in the specification data sheet. Any descriptions, drawings, photographs, data, proportions, weights, etc. given in this publication may change without prior information. The customer and/or user is responsible to consider and respect all hazard and safety issues according to the MSDS of Ultracur3D® DM 2505 and take, implement and/or install adequate measures and precautions to avoid any personal injuries, property damages and/or environmental pollution. Therefore, BASF3D Printing Solutions GmbH shall not be liable for any personal injury, property damages and/or environmental emissions arising out of or related to the testing, handling or usage, storage and possession of Ultracur3D® DM 2505. It is the sole responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed (02/2020)

Version 1.0

Intended Use

These instructions are intended to produce dental models and dental models for thermoforming. Ultracur3D® DM 2505 is a technical material based on (meth-)acrylate resin for suggested LCD and DLP systems. Working **wavelength**: 385 nm or 405 nm. Attached a list of suggest 3D printer and Printing parameters. For more information contact BASF directly at sales@basf-3dps.com.

Available Color

- Beige

Suitable 3D Printer and Settings

PRINTER	MIICRAFT ULTRA 125
Wavelength	405 nm
Power	4 mW / cm ²
Curing time	3.5 s
Voxel depth	100 µm

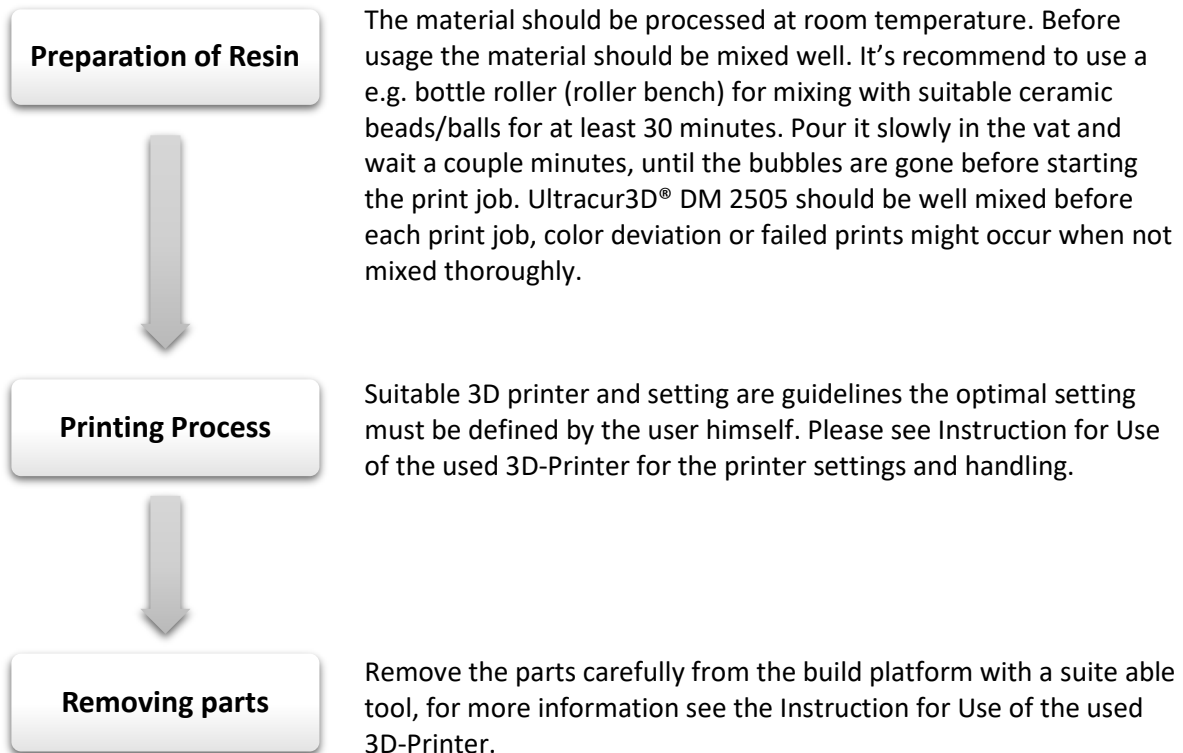
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Design Information

For designing the dental model and the model for thermoforming, we recommend using only certified Software. If the model is hollowed make sure to have drainage channels (if no platform with holes is used) to make sure that the material is not trapped inside. For some hollowed models support structures might be needed. We recommend printing horizontal and always with a connector.

Printing Process



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Cleaning and Post-curing process

Cleaning Process

Ultracur3D® DM 2505 can be cleaned with dest. Water as well as with Glycol Ether based solvent (ex. Resin Away [Monocure 3D]) & 2-propanol, please refer to either one for the following cleaning procedures.

Cleaning with dest. Water

Step 1: Place the parts in a container filled with used dest. Water and in an Ultrasonic bath filled with Water for 3 minutes.

Step 2: Rinse the parts with dest. Water for a few seconds. Fine structures or holes may be better cleaned by using dest. water and a syringe or by separate brushing. The parts should be placed afterwards in a container filled with fresh dest. Water and subsequently treated in an ultrasonic bath filled with water for 3 minutes.

Step 3: Blow dry the parts with pressure air/nitrogen, until the parts are clean.

Cleaning with Glycol Ether based solvent & 2-propanol

Step 1: Place the parts in a container filled with Glycol Ether based solvent and in an Ultrasonic bath filled with water for 2 minutes.

Step 2: Rinse the parts with 2-propanol for a few seconds. Fine structures or holes may be better cleaned by using 2-propanol and a syringe or by separate brushing. The parts should be placed afterwards in a container filled with fresh 2-propanol and subsequently treated in an ultrasonic bath filled with water for 3 minutes.

Step 3: Blow dry the parts with pressure air/nitrogen, until the parts are clean.

Drying

Place the parts into a warming cabinet @40°C for 30 minutes.

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Post curing

Ultracur3D® DM 2505 parts require adequate post curing to achieve the optimized final mechanical properties. After each post-curing cycle, the part needs to be flipped to achieve an even curing.

Examples of post curing procedures

MiiCraft Ultra 125

Post-curing unit	Otoflash G171
Amount of cycles	2
Duration of one curing cycle	2000 flashes



Finishing Process

Supports can be removed with a conventional dental handpiece and a dental grinding tool for plastics, if needed.

These proceedings are only general guidelines, the optimal printing settings as well as curing time must be defined by the user himself. The post-curing might differ by using different 3D-Printers and different post-curing units may require different settings.

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