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> Jamghe 3D Printer Resin Dental Pro Model Resin User Manual

JH JAMG HE DN

Jamghe 3D Printer Resin Dental Pro Model Resin User Manual

Brand: JH JAMG HE | Model: DN

1. INTRODUCTION

This manual provides essential information for the safe and effective use of Jamghe 3D Printer Dental Pro Model Resin. This resin is specifically formulated for dental prosthetic models, including crown and bridge models, orthodontic models, and implant models. Please read this manual thoroughly before use to ensure optimal results and safety.



Image 1.1: Jamghe 3D Printer Dental Pro Model Resin bottle alongside a precisely printed dental model, showcasing the product and its application.

2. PRODUCT FEATURES

The Jamghe Dental Pro Model Resin offers several key features designed for high-quality dental model production:

- **Ultra Low Shrinkage:** Engineered for minimal shrinkage, ensuring high accuracy and non-deformation of models over time. This is crucial for precise restoration, orthodontic, and implant cases.
- **High Precision:** Delivers highly accurate prints with exact dimensions, ensuring that printed models match digital designs precisely.
- **Scratch Resistance:** Provides enhanced durability, maintaining the integrity and accuracy of the model, especially during the insertion process of dies.
- **Fast Printing:** Optimized for rapid curing, with typical layer times of 1-3 seconds for DLP, 2-3 seconds for LCD mono, and 6-8 seconds for LCD RGB printers.

- **Wide Compatibility:** Suitable for use with various 405nm open system DLP or LCD 3D printers, including 2K, 4K, RGB, and monochrome screens.



Image 2.1: Visual representation of the resin's excellent product performance, highlighting high precision, fast curing, excellent fluidity, consistent quality, LCD compatibility, and rigid toughness.

Well Compatible With Various 3D Printers

Suitable for any 3d printers using
UV Light Source Technology



Image 2.2: Illustration of the wide compatibility of Jamghe Dental Pro Model Resin with various popular 3D printer brands utilizing UV light source technology.

3. SETUP AND PREPARATION

Before beginning your 3D printing process with Jamghe Dental Pro Model Resin, ensure proper setup and safety precautions are followed.

3.1 Safety Precautions

- Always wear appropriate personal protective equipment (PPE), including gloves and a mask, to prevent skin contact and inhalation of resin fumes.
- Work in a well-ventilated area.
- Avoid direct contact of the resin with skin and eyes. In case of contact, wash immediately with plenty of water.
- Keep the resin away from children, dust, and direct sunlight.

3.2 Resin Preparation

- **Shake Well:** Before each use, shake the resin bottle thoroughly for at least 1 minute to ensure all components are evenly mixed.
- **Temperature:** Ensure the resin is at a recommended temperature of 20°C to 25°C (68°F to 77°F) for optimal performance.
- **Pouring:** Carefully pour the desired amount of resin into your 3D printer's resin vat.

USE AND STORAGE TIPS



Shake well before using



Recommended temperature 20°~25°



Keep away from children, dust and direct sunlight



Wear gloves and mask to avoid the resin contact with skin



Wash with plenty of water immediately if the resin drips on your skin without any protection



Image 3.1: Important use and storage tips for Jamghe Dental Pro Model Resin, emphasizing safety and proper handling.

4. OPERATING INSTRUCTIONS

Follow these general guidelines for operating your 3D printer with Jamghe Dental Pro Model Resin. Specific settings may vary based on your printer model.

4.1 Printer Settings

- **Exposure Time:** Adjust exposure times according to your printer's specifications and the resin's recommended settings.
 - DLP Printers: 1-3 seconds per layer
 - LCD Mono Printers: 2-3 seconds per layer
 - LCD RGB Printers: 6-8 seconds per layer
- **Bottom Exposure Layers:** Typically, 5-10 bottom layers with a longer exposure time (e.g., 30 seconds) are recommended for better adhesion to the build plate.
- **Layer Height:** Common layer heights for dental models range from 0.05mm to 0.1mm for optimal detail.
- **Supports:** Utilize appropriate support structures in your slicing software to ensure successful prints, especially for complex geometries.

4.2 Printing Process

1. Prepare your 3D model in your slicing software, adding supports and orienting the model as needed.
2. Load the sliced file onto your 3D printer.
3. Ensure the resin vat is clean and filled with properly mixed Jamghe Dental Pro Model Resin.
4. Start the printing process. Monitor the first few layers to ensure proper adhesion.



Image 4.1: A collection of dental models printed with Jamghe resin, demonstrating the resin's capability for producing detailed and accurate prosthetic, orthodontic, and implant models.



Image 4.2: Detailed view of a printed dental model, showcasing the high precision and smooth finish achievable with Jamghe Dental Pro Model Resin.

5. POST-PROCESSING AND MAINTENANCE

5.1 Post-Processing Printed Models

1. **Cleaning:** After printing, carefully remove the model from the build plate. Clean the printed model using isopropyl alcohol (IPA) or a resin cleaner to remove uncured resin. Two 10-minute cycles in an ultrasonic cleaner with water and dish detergent can also be effective.
2. **Drying:** Allow the cleaned model to dry completely before post-curing.
3. **Post-Curing:** Cure the model under UV light to achieve maximum hardness and strength. Curing times vary depending on the UV curing station and model thickness.
4. **Support Removal:** Carefully remove any support structures. The resin's properties facilitate easier support removal.

5.2 Resin Storage and Disposal

- **Storage:** Store unused resin in its original opaque bottle in a cool, dry place away from direct sunlight and heat. Ensure the cap is tightly sealed.
- **Disposal:** Dispose of uncured resin and contaminated cleaning solutions according to local regulations. Do not pour liquid resin down drains. Cured resin can typically be disposed of as solid waste.

6. TROUBLESHOOTING COMMON ISSUES

Issue	Possible Cause	Solution
Prints not adhering to build plate	Insufficient bottom exposure time; build plate not level; cold resin temperature.	Increase bottom exposure time; re-level build plate; ensure resin is at 20-25°C.
Print failures/Partial prints	Incorrect exposure time; insufficient supports; resin not mixed well; FEP film damage.	Adjust exposure time; add more supports; shake resin bottle thoroughly; inspect and replace FEP film if damaged.
Models are brittle after curing	Over-curing; insufficient post-curing.	Optimize post-curing time; ensure models are clean before curing.
Poor detail/Loss of accuracy	Incorrect exposure time; dirty resin vat/screen; worn out LCD screen.	Fine-tune exposure settings; clean resin vat and screen; consider LCD screen replacement if old.

7. PRODUCT SPECIFICATIONS

Attribute	Detail
Product Name	Jamghe 3D Printer Resin Dental Pro Model Resin
Brand	JH JAMG HE
Model Number	DN
Application	Dental Prosthetic Models (Crown, Bridge, Orthodontic, Implant)
Curing Wavelength	405nm UV Light
Shrinkage	Ultra-low
Package Dimensions	9.21 x 3.9 x 3.9 inches
Item Weight	2.65 Pounds (for 500g variant)
Manufacturer	Jamg he
ASIN	B09M3MSK27

8. SUPPORT AND CONTACT INFORMATION

For further assistance, technical support, or inquiries regarding Jamghe Dental Pro Model Resin, please contact JH JAMG HE customer service.

Visit the official JH JAMG HE Store on Amazon for more products and information:[JH JAMG HE Store](#)
Please refer to the product packaging for any additional contact details or specific warranty information.

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