

INSTRUCTIONS FOR USE (IFU) In accordance with General Product Safety Directive (GPSD) - 2001/95/EC		PAGE 1/4
DOCUMENT NO.: IFU_DuraPrint_MASTER_CRYSTAL-001	DATE OF EFFECT: 01.01.2025	REVISION NO./DATE: 00/01.01.2025

1. Product Identification

- **Product Name:** DuraPrint MASTER CRYSTAL
- **Intended Use:** UV photosensitive resin for precise 3D printing of externally used dental guides or placeholders.
- **Manufacturer:** Erk Dental Medikal Tıbbi Malz.Tur.San. ve Tic. Ltd. Şti.
- **Address:** Tuna Mahallesi Sanat Caddesi No:17 D:211 Bornova 35090 İzmir Türkiye
- **Contact Information:** Phone: +90 232 458 20 55 Email: info@erkdental.com

2. Intended Use

DuraPrint MASTER CRYSTAL is a transparent UV photosensitive resin designed for creating highly precise, externally used dental guides and placeholders. This product is intended for professional use only and is not for direct patient contact or medical applications.

3. Product Features

- High transparency for clear visualization.
- Optimized for 3D printing workflows in dental applications.
- Compatible with standard UV wavelengths (385-405 nm).
- Suitable for external-use dental guides and placeholders.

4. Safety Instructions

- **General Safety:**
 - This product is for professional use only.
 - Keep out of reach of children.
- **Personal Protective Equipment (PPE):**
 - Wear protective gloves, safety goggles, and appropriate lab attire.
 - Ensure proper ventilation or use in a well-ventilated area.

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- **Warnings:**
 - Avoid contact with skin and eyes.
 - Do not ingest or inhale vapors.
 - Handle uncured resin with care; it may cause skin irritation or allergic reactions.
 - **First Aid Measures:** Refer to the Safety Data Sheet (SDS) for detailed instructions.
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5. Preparation and Handling

1. **Work Environment:**
 - Ensure the workspace is clean, dry, and free from dust or debris.
 - Use in a well-ventilated area or with proper fume extraction systems.
 2. **Resin Handling:**
 - Shake the resin bottle thoroughly before use to ensure proper mixing.
 - Pour only the required amount into the printer's resin tank to avoid waste.
 3. **Storage:**
 - Store the resin in its original, tightly sealed container.
 - Keep away from direct sunlight, heat sources, and moisture.
 - Recommended storage temperature: 15-30°C (59-86°F).
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6. 3D Printing Instructions

1. **Printer Compatibility:**
 - Ensure that your 3D printer supports UV wavelengths of 385-405 nm.
2. **Printing Parameters:**
 - Follow the printer manufacturer's guidelines for layer height, exposure time, and curing settings.
3. **Model Orientation:**
 - Orient the model for optimal support and minimal resin usage.
4. **Post-Printing Cleanup:**
 - Use isopropyl alcohol (IPA) or recommended cleaning agents to remove uncured resin from printed models.
 - Allow models to air dry completely before post-curing.

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7. Post-Curing Instructions

1. Curing Equipment:

- Use a UV curing chamber or equivalent device that supports curing wavelengths of 385-405 nm.

2. Curing Process:

- Place the cleaned model inside the curing chamber.
- Cure for 5-10 minutes or as recommended by the equipment manufacturer.

3. Final Inspection:

- Inspect the cured model for surface quality and accuracy before use.
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8. Disposal Instructions

• Unused Resin:

- Dispose of unused or uncured resin in accordance with local, regional, and national regulations.
- Do not pour uncured resin into drains or water systems.

• Cured Resin:

- Fully cured resin is considered non-hazardous and can be disposed of as regular waste.
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9. Troubleshooting

Issue	Possible Cause	Solution
Model warping or deformation	Improper orientation or insufficient supports	Reorient model and add adequate supports.
Incomplete curing	Insufficient exposure time or curing light intensity	Increase curing time or check curing device.
Resin not adhering to platform	Build platform not leveled or insufficient exposure	Re-level platform and adjust exposure time.

10. Additional Information

For additional support, contact Erk Dental Medikal Tıbbi Malz.Tur.San. ve Tic. Ltd. Şti. at Phone: +90 232 458 20 55 Email: info@erkdental.com. Refer to the Safety Data Sheet (SDS) for comprehensive safety and handling information.

Disclaimer: This product is intended for professional use only. The manufacturer is not responsible for improper handling or misuse of the product. Follow all safety and usage guidelines strictly.