



Instruction for Use

Coloring Liquid

Effective Date: 2026.06.01



Anhui Miisen Intelligence Technology Co., Ltd

【Device Name】 Coloring Liquid

【Model and Specifications】 HT-Plus, ST, SHT and UT. (Refer to appendix 1 for details)

【Ingredients】

The Coloring Liquid made by ferric nitrate ($\text{Fe}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$), erbium nitrate ($\text{Er}(\text{NO}_3)_3 \cdot 5\text{H}_2\text{O}$), cobalt nitrate ($\text{Co}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$), and Polyethylene glycol and Water.

【Indications】

Coloring liquid is used for coloring Dental Zirconia Block with white color which is indicated for tooth damage (decayed tooth, damaged tooth, etc.), fixed-bridge restorations for tooth absence, aesthetic restoration for tooth discoloration.

【Contraindication】

Bruxism and allergic reactions to dental materials / ingredients in this product.

【Precautions & Warnings】

- 1) For dental use only and keep it clean.
- 2) The operator must undergo special training and be skilled in the operation of the product.
- 3) Can't put into mouth. If accidental contact, flush immediately with large amounts of water. Consulting with a doctor in case of allergy, abdominal pain and diarrhea are strongly recommended.
- 4) Every model of coloring liquid is used together with same model of white dental zirconia block manufactured by Anhui Miisen Intelligence Technology Co., Ltd.
- 5) Multiple soaked dental restorations should not be stacked, and the restorations should be moved slightly during the soaking process so that the dyeing solution can penetrate evenly.
- 6) The Coloring Liquid is not sold separately; it is only available with the MIISEN Dental Zirconia Block (White Block).

【Instructions】

(1) Isolate the sculpted coping or restoration from the zirconia block, and thoroughly remove all the dust by utilizing an appropriate synthetic brush, ensuring that the inner surface is also thoroughly cleaned.

To prevent contamination, it is essential that blanks remain unexposed to water, any other liquids, grease (such as hand cream), or oil throughout the processing phase, with the exception of the coloring liquid. Exposure to these substances may lead to suboptimal color matching outcomes.

(2) Position the coping or restoration into the designated coloring liquid container in accordance with the specifications provided by the client.

* Before initiating the immersion process, gently agitate the coloring liquid. Subsequently, pour it into a clean and dry plastic container, ensuring that the restoration is fully submerged in the coloring liquid.

* If multiple restorations were simultaneously immersed in an identical coloring liquid, with efforts made to maintain sufficient space between the crowns to ensure a better penetration of the coloring liquid.

* During the immersion process, gently agitate the restoration using plastic tweezers to facilitate a uniform absorption of the coloring liquid.

(3) Immerse the coping or restoration in the coloring liquid for a duration of 60 seconds, and subsequently extracted using plastic forceps.

* Each coping or restoration is only permitted to undergo the coloring procedure a single time.

* Promptly seal the bottle following use in order to maintain the stability of the colorant concentration to the greatest extent possible.

(4) Utilize a cotton ball or an absorbent paper towel to wipe off the remaining coloring liquid from the crown and interdental areas.

* Ensure that no remnants of paper towel material are present on the inner crown or restoration.

(5) Position the coping or restoration under an infrared drying lamp for 30 seconds.

(6) Sintering of the coping or restoration in a crystallization furnace specially adapted for zirconia.

【Question Guidelines】

The questions on the restorations during dyeing process:

Questions	Causes	Solutions
Surface Contamination	The overutilization of color liquid and the presence of contaminants.	Avoid utilizing color liquids that have been subjected to prolonged exposure.
Visible white specks on the surface	The omission of the removal of grinding dust.	Meticulously remove all the grinding dust on the surface prior to the application of color liquids.
Inaccurate color	The improper application of using the shades and specifications of the coloring liquids.	Verify the accuracy of the models and shades before dyeing procedure. Proceed to the subsequent step only after ensuring that no discrepancies are present.

【Storage】

Do store at proper temperature or keep out of intense light. Don't keep with humidity. Keep the product out of the reach of the Children. Package tight closed.

【Transportation】

This product is not regulated for transport of dangerous goods. Examine whether the package of the containers are integrate and tighten closed before transport. No divulgence, no collapse, no precipitation or no damage during the course of transportation. During transport should prevent exposure, rain and high temperature.

【Transport & Storage】 Temperature: -18°C~ 30°C, Humidity: 10% ~ 90% RH.

【Dispose】

This product is not regarded as hazardous waste. When dispose this product or its container refer to National or Local regulations before handing.

【Date of manufacturing】 See the labeling.

【Shelf Life】 1 year, limited time of use after opening packaging: 3 months. Keep container closed, do not inhale.



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Humiss International B.V.

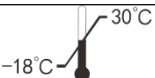
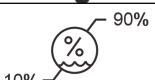
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【Symbol】

Symbol	Instruction
	Fragile, handle with care.
	Consult instructions for use, or consult electronic instructions for use(eIFU)
	Keep dry
	Attention(See user's manual)
	Date of manufacturing
	Date of expiry
	Lot number
	Conformity to the requirements of the applicable EC directives
	Do not use when the packing is damaged
	Prevent from heat
	Prescription Use (Rx)
	Manufacturer and address
	Authorized Representative in the European Community/European Union
	Importer
	Medical device, indicates the item is a medical device
	Unique device identification
	Recommend the limited time of use after opening packaging: 3 months.
	Temperature limit in storage and Transportation
	Humidity limitation in storage and Transportation

Product reliability

Information on reporting serious incidents in connection with medical devices, general risks associated with dental treatments, residual risks and (if applicable) short clinical safety and performance reports (SSCPs) can be found in EUDAMED database (URL: <https://ec.europa.eu/tools/eudamed>) under the product Basic UDI-DI: 69412445CLCN.

Safety data sheets can be downloaded at www.miisenzirconia.com or requested by fax at (+86) (0) 553-2358187 or by Email: Miisen@miisen.com

Disclaimer

Please note: Our products must be used in accordance with the instructions for use. We do not accept any liability for damage resulting from incorrect handling or usage. The user is furthermore obligated to check the product before use with regard to its suitability for the intended area of applications. We are not responsible for risks arising from the use of the product in non-intended indication areas.

Date of issue of these Instructions for Use: 2026-06. After the publication of these instructions for use, any previous versions become obsolete. The current version can be found at www.miisenzirconia.com

Appendix 1: Specifications of Coloring Liquid

Name	Model	Shades		Spec.(mL)
Coloring Liquid	HT-Plus	20 color series	A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4, BL1, BL2, BL3, BL4	50, 25
		29 color series	S0M1, S0M2, S0M3 S1M1, S1M2, S2L1.5, S2L2.5, S2M1, S2M2, S2M3, S2R1.5, S2R2.5 S3L1.5, S3L2.5, S3M1, S3M2, S3M3, S3R1.5, S3R2.5 S4L1.5, S4L2.5, S4M1, S4M2, S4M3, S4R1.5, S4R2.5 S5M1, S5M2, S5M3	50, 25
	ST	20 color series	A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4, BL1, BL2, BL3, BL4	50, 25
		29 color series	S0M1, S0M2, S0M3 S1M1, S1M2, S2L1.5, S2L2.5, S2M1, S2M2, S2M3, S2R1.5, S2R2.5 S3L1.5, S3L2.5, S3M1, S3M2, S3M3, S3R1.5, S3R2.5 S4L1.5, S4L2.5, S4M1, S4M2, S4M3, S4R1.5, S4R2.5 S5M1, S5M2, S5M3	50, 25
	SHT	20 color series	A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4, BL1, BL2, BL3, BL4	50, 25
		29 color series	S0M1, S0M2, S0M3 S1M1, S1M2, S2L1.5, S2L2.5, S2M1, S2M2, S2M3, S2R1.5, S2R2.5 S3L1.5, S3L2.5, S3M1, S3M2, S3M3, S3R1.5, S3R2.5 S4L1.5, S4L2.5, S4M1, S4M2, S4M3, S4R1.5, S4R2.5 S5M1, S5M2, S5M3	50, 25
	UT	20 color series	A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4, BL1, BL2, BL3, BL4	50, 25
		29 color series	S0M1, S0M2, S0M3 S1M1, S1M2, S2L1.5, S2L2.5, S2M1, S2M2, S2M3, S2R1.5, S2R2.5 S3L1.5, S3L2.5, S3M1, S3M2, S3M3, S3R1.5, S3R2.5 S4L1.5, S4L2.5, S4M1, S4M2, S4M3, S4R1.5, S4R2.5 S5M1, S5M2, S5M3	50, 25