



HARZ Labs
MATERIALS FOR 3D PRINTING

HARZ Labs Glaze

Material Technical Data Sheet (TDS)

Version 1.1 / EN
15 November 2022

SECTION 1: DESCRIPTION AND APPLICATION

Gloss acrylic urethane UV-curing glaze. Developed for coating of crown and bridge models up to 2 months. It is cured without a tacky layer and does not require further polishing. HARZ Labs Glaze has high adhesion to PMMA and is suitable for milling models. Does not contain methyl methacrylate and other drug precursors.

SECTION 2: MATERIAL PROPERTIES

2.1 Characteristics of liquid

Tested property	Standard/Method	Result
Color	-	Transparent
Odor	-	Weak
Density	ASTM D1298	$0.9 \pm 0.1 \text{ g/cm}^3$
Viscosity (25 °C)	ASTM D2393	$20 \pm 10 \text{ mPa}\cdot\text{s}$

2.2 Special parameters

Tested property	Standard/Method	Result
Solubility (24h)	ASTM D3132	$\leq 0.01 \%$
Sorption (24h)	ASTM D570	$\leq 0.47 \%$
Gloss level, 20o	ISO 2813	>90 G.U.
Shore hardness	ISO 868	85 D
Free monomer content	ISO 10993	Passed
Cytotoxicity	ISO 10993	Passed
Irritation	ISO 10993	Passed
Sensibilization	ISO 10993	Passed

SECTION 3: APPLICATION INSTRUCTION

Degrease the surface with isopropyl or ethyl alcohol before applying Harz Labs Glaze. Apply the clearcoat to the surface with a brush, hold for at least 60 seconds (depending on the thickness of the applied layer) to achieve complete leveling and removal of solvent residue from the surface. Cure the painted surface with a UV light source (405 nm, $4.9 \text{ mW} / \text{cm}^2$) for at least 10 minutes. At the end of curing, the product should not have a tacky layer. **Do not apply the material directly in the mouth.**

The information above is believed to be accurate and represents the best information currently available to us. All test specimens were printed, cleaned, and post-processed per instructions provided by HARZ Labs company. Results provided here are representative of these processes and may vary if these established protocols are not followed. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall HARZ Labs LLC (ООО «ХАРЦ Лабс») be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if HARZ Labs LLC (ООО «ХАРЦ Лабс») has been advised of the possibility of such damages.