



**HARZ Labs**  
MATERIALS FOR 3D PRINTING

# HARZ Labs

# Glaze

Material Technical Data Sheet (TDS)

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## SECTION 1: DESCRIPTION AND APPLICATION

Harz Labs Glaze is a UV-curing high gloss acrylic-urethane clearcoat. It does not contain methyl methacrylate and other drug precursors. It is developed especially to increase part's (crowns, bridges, splints, basis prothesis etc) durability. It is cured under UV without tack layer and do not require further sanding.

## 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	$>90 \text{ G.U.}$
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.**

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