

silkscreening oil

SILKSCREENING OIL NO 238 for decal printing

Heraeus Precious Coatings is a global manufacturer of precious metal decoration products for ceramics and glass. Heraeus profits from over 100 years experience in ceramic and glass decoration designs, which has always made the department a pioneer in the development of precious metal colours. Modern precious metal preparations have to meet high demands on different types of substrates – such as on porcelain, tiles, drinking glasses, flacons and bottles. Decorations have to achieve good mechanical and chemical resistance such as dishwasher durability. The products supplied by Heraeus Precious Coatings include: Bright gold and platinum products, silk-matt gold and platinum products, burnish gold and platinum products, lusters and metallo-organic preparations for technical use.

1 General information

Silkscreening Oil No 238 is the special medium worked out for the pasting of the underlays used in the Heraeus Matt Gold System for ceramic.

The Heraeus Matt Gold System for decals is a decoration system where a bright gold or platinum decal paste is partly printed on a special matt underlay. The bright gold on top of the underlay shows a silk matt golden finish, the bright gold directly resting on the glaze shows the typical bright finish.

Being a system for decal application the effect is reached with only one firing. For a successful firing result the silkscreening oil used for the pasting of the matt underlay needs to offer certain firing properties. No 238 had been special developed for the Heraeus Matt Gold System.

2 Standard firing range

Substrate	Firing range [°C]
porcelain	
bone china	



Directly to the product: [Click](#)



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3 Properties of the product

3.1 Storage

Silkscreening Oil No 238 should be stored at room temperature (20°C). We recommend using the material within 12 months time.

4 Application of the material

4.1 Recommendations for the usage

- For the pasting of the lead containing underlay H 5234 we recommend a mixing ratio of 100 : 35-40 parts by weight (underlay : silkscreening oil). For the pasting of the lead free underlay H 55033 we recommend a mixing ratio of 100 : 40-45 parts by weight.
- Please take care for a good homogenization of the paste. For an optimal homogenization of the underlay paste we recommend the usage of a triple roll mill.
- For the printing of the underlay we recommend the usage of a 130-34 polyester screen.
- The printed underlay needs at room temperature (20°C) a minimum drying time of 3 to 4 hours. The maximum drying time is 24 hours. The surface of the underlay has to be "touch dry", that means, one should not been able to blur it by hand, but in the same time it should not be completely dry, so that the underlay might already be brittle.

5 Safety data information

For safety data information please check our Safety Data Sheet for Silkcreening Oil No 238.

Contact

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The statements concerning our products correspond to our current knowledge and experience. It is the obligation of the purchaser to examine the usefulness of the products in its intended use in each individual case. In order to prevent production losses the user has to test the preparations in connection with every other material being involved in the production process and has to be satisfied that the intended result can be consistently produced.