silkscreening oil

SILKSCREENING OIL NO 238/3 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

TEST. Silkscreening Oil No 238/3 is the special medium worked out for the pasting of the special underlays and reliefs used in the Heraeus One Fire Etching Imitation System.
In an original etching decoration first parts of the substrate glaze need to be removed by the use of hydrofluoric acid. In the second step the precious metal gets applied. At the lower parts, where the glaze has been removed, the bright precious metal shows a silk matt appearance, on top of the glaze a bright appearance.

The Heraeus One-Fire-Etching-Imitation-System allows to produce a similar optical effect without the need to work with aggressive acid. It is a decal system consisting of a special white underlay which creates a matt surface, plus a bright relief for a raised effect and the special bright metal paste on top.

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 238/3 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 free underlay for bone china H55060 we recommend a mixing ration of 100:45 parts by weight (underlay : silkscreening oil). For the pasting of the lead free underlay H55080 for the system on porcelain we recommend a mixing ratio of 100:50.
- For a good homogenization the underlay paste should be homogenized with a triple role mill.
- For the pasting of the bright reliefs H55070 for bone china or H55090 for porcelain we recommend a mixing ratio of 100:55 parts by weight. Please homogenize the paste with a triple role mill.
- Please prepare the materials always fresh for a printing job.
- Important note! Do not print special underlay + relief decals on stock. It is not possible to store decals printed with a special underlay/relief in order to print the bright gold paste at a later time. The complete decal needs to be freshly printed as explained above.
- For the printing of the special underlay we recommend the usage of a 130-34 polyester screen. The underlay has the task to create a thin layer with a rougher surface so that the bright gold paste on top will show a semi-matt finish.
- For the printing of the bright relief please use a 230-300 mesh stainless steel screen. On top of the bright relief the bright gold paste will show a bright finish (see the example of the picture).
- For more details about the Heraeus One Fire Etching Imitation System please check our Product Information Sheets for the Heraeus One Fire Etching Imitation Systems for Porcelain and Bone China.

5 Safety data information

For safety data information please check our Safety Data Sheet for Silkcreening Oil No 238/3.

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.