underlay

UNDERLAY H 55033 LEAD FREE 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

H 55033 is a lead free special underlay for the Heraeus Matt Gold System for decals on porcelain and bone china. In the Heraeus Matt Gold System for decals first a layer of special underlay is printed. Secondly a bright gold, bright platinum or bright palladium paste is applied on top. Where the bright precious metal paste is printed on top of the underlay, the metal appearance is silk matt after firing. Where the bright precious metal paste rests directly on the glaze, the appearance after firing is shiny bright. With the Heraeus Matt Gold System interesting bright and matt decorations can be achieved in a cost efficient system with the print of only a special underlay and a bright precious metal material, which typically has a lower metal content as silk matt or burnish metal preparations.

2 Standard firing range

Substrate	Firing range [°C]
bone china	780-820
porcelain	800-820

Directly to the product:

Click

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3 Properties of the product

3.1 Storage

H 55033 is a lead free colour powder. The material should be stored in dry environment.

4 Application of the material

4.1 Recommendations for the usage

- For the pasting of the lead free underlay H 55033 we recommend a mixing ration of 100:45-55 parts by weight (underlay : silkscreening oil) with special silkscreening oil No 238.
- For a good homogenization the pasted underlay should be homogenized with a triple role mill. Please prepare the materials always fresh for a printing job.
- For the printing of the special underlay we recommend the usage of a 130-34 up to a 150-31 polyester screen. For the printing of the bright gold / platinum / palladium paste on top, we recommend using a 120-34 to 130-34 polyester screen.
- For more details about the decoration system, please check our Product Information Sheet for the Heraeus Matt Gold System.

5 Safety data information

For safety data information please check our Safety Data Sheet for Underlay H 55033.

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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.