

flux

FLUX F080802 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

F080802 is the special lead free protective flux designed for the Heraeus Gold under Flux System. The Heraeus Gold under Flux System is a decal based system where the bright gold / platinum or palladium layer is covered and protected by a thin layer of flux. The so protected precious metal layer is far more scratch resistant than a regular bright precious metal layer. The system is recommendable to be used for all decorations on ceramic which are exposed to significant physical stress, for example for often used restaurant tableware.

2 Standard firing range

Substrate	Firing range [°C]
porcelain	820-860
tiles	820-860



Directly to the product: [Click](#)



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3 Properties of the product

3.1 Storage

F080802 is a lead free flux powder. The material should be stored in a dry environment.

4 Application of the material

4.1 Recommendations for the usage

- For the pasting of the lead free flux F080802 with special medium No 258 we recommend a mixing ratio of 100:100 parts by weight. The flux paste should be homogenized with a triple roll mill.
- For the printing of the flux paste on top of the pre-printed bright gold, bright platinum or bright palladium paste we recommend using a 100-40 up to a 77-50 polyester screen.
- The finished decals should be applied and fired as soon as possible. A longer storage of the decals is NOT recommended. During storage the decals might get brittle and with the heavier layer of precious metal plus a flux on top the application to the substrate will get more difficult.
- If the decal cannot be properly squeegeed anymore, that will negatively impact the adhesion of the fired decoration. For more information about the Heraeus Gold under Flux System please check our special Product Information Sheet about this decoration system.

5 Safety data information

For safety data information please check our Safety Data Sheet for Flux F080802.

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.