thinner

THINNER V 171 H for mixing

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

V 171 H is a thinner for precious metal pastes for direct screen printing and decal production. Evaporation behaviour: Slow drying.

Heraeus precious metal pastes are typically prepared ready for use. But after a longer time of printing with the paste distributed in the screen and exposed to evaporation, it might be necessary to add some solvent to bring the paste back to usual solvent level.

With moderate addition of V 171 H one can assure that the material deposit applied on the substrate respectively the decal paper stays fairly constant.

2 Standard firing range

Substrate	Firing range [°C]
not applicable	

Directly to the product: Click

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3 Properties of the product

3.1 Storage

Thinner V 171 H 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

- The typical usage of V 171 H is not to thin down the precious metal paste, but to add the amount of solvent which has been evaporated during printing. An indicator that a solvent adjustment is necessary is, if the natural colour shade of the material layer printed is getting step by step darker. Then solvents have been evaporated and the material layer has got thicker.
- Thickened paste should be definitely adjusted before the material is put back into the jar to get stored. Please take care that V 171 H is getting properly mixed into the paste and homogenized.
- We recommend the homogenization with a three role mill.

5 Safety data information

For safety data information please check our Safety Data Sheet for V 171 H.

Contact
Heraeus Tokmak A.S. | Kemalpasa O.S.B. Mah. 37. Sok. No:6 | 35170 | Izmir | Turkey | +90 232 8772 410

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.