

luster liquid

TL 4760 IRIS H for spray

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

Thermoluster TL 4760 IRIS H is based on metallic compounds thinned with organic solvents. The material is sprayed on the hot glass. The glass surface should still have a temperature of about 600 - 650°C. The solvents of the material evaporate almost instantly and leave on the glass substrate a very thin metal layer of around 0,1 µm. Being directly applied to the hot glass the thermoluster shows a fairly good adhesion, typically better than of a “standard luster” applied and fired in a kiln. Thermo lustres are supplied in liquid form ready for use.

2 Standard firing range

Substrate	Firing range [°C]
hot glass	not applicable



Directly to the product: [Click](#)



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3 Properties of the product

3.1 Storage

Thermo lustres can be kept up to 6 months in cool and dark storage. The packages should always be tightly closed, in order to limit evaporation losses. In case the solvent share has evaporated, the products can be adjusted with our thinner V20.

4 Application of the material

- Thermoluster TL 4760 IRIS H needs to be sprayed on the still semi-molten glass.
- We recommend the use of an electrostatic spraying device, since this guarantees the most homogenous distribution of the preparation.
- Please be aware that thermolusters are highly solvent containing materials. During the application process, the spraying of the material onto the hot glass surface, these solvents evaporate into the working environment.
- A frequent and strong exchange of air is mandatorily required.
- Please also consider the hints provided in the Safety Data Sheet.
- Insufficient exchange of air can additionally lead to a risk of explosion, if the concentration of solvents in the working environments is getting too high. Please assure that fire protection rules are strictly followed (e.g. no open flames, no lighters, no smoking etc.)

5 Thinner

In case TL 4760 IRIS should be further thinned, please use thinner V20. This thinner is designed for the thinning of thermolusters. For safety reasons, no other thinners can be used as there may be a danger of inflaming. This thinner can be added in any ratio and leads to a further improved area distribution and therefore to a smoother surface. However, you should take into consideration that the addition of V20 reduces the colour intensity.

6 Safety data information

Thermo lustres contain dichlormethane and therefore have to be marked as harmful according to the dangerous goods regulation. Hazardous substances might form. Therefore, direct contact is to be avoided and extraction during processing is necessary.

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.