



Thermolustres For Application On Hot Glass

1 General Information

Thermo lustres are based on metallic compounds thinned with organic solvents. After firing, these lead-, cadmium- and uranium-free products form a very thin layer ($< 0.1 \mu\text{m}$) of intensive brilliance with metallic iridescent colour shades.

Since thermo lustres are applied on the still semi-molten glass at comparatively high temperatures, they are more abrasion resistant than standard lustres which are fired at $500\text{-}580^\circ\text{C}$ / $932\text{-}1076^\circ\text{F}$. Due to the fusion of the lustre with glass, this process is also called diffusion.

Thermo lustres are supplied in liquid form ready for use.

2 Application

Thermo lustres are sprayed on the still semi-molten and hot glass at approx. $600\text{-}650^\circ\text{C}$ / $1112\text{-}1202^\circ\text{F}$. We recommend the use of an electrostatic spraying device, since this guarantees the most homogenous distribution of the preparation.

3 Thinner

In case you want to thin our products, we recommend using our thinner V 19, especially developed for thermo lustres. 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 V 19 reduces the colour intensity.

For safety reasons, no other thinners can be used as there may be a danger of inflaming or burning!

Thinner V 19 can also be used as a cleaner.

4 Miscibility

Thermo lustres are mixable with each other.

5 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 V 19.

6 Safety Data

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.

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.

7 Thermolustres For Application On Hot Glass (Ready For Spraying)

Number of Colour	Name of colour	contains precious metal	lead free		Notes
				cadmium free	
TL 5	Iris		●	●	-
TL 1	Amber		●	●	-
TL 2	Orange		●	●	-
TL A 3718	Brown		●	●	-
TL 4	Smoky Grey		●	●	-

The colours are available in different colour shades.

Some lustre preparations can be dishwasher durable (depends on firing conditions, substrate etc.). This must, however, always be checked by the user under his own individual conditions.

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