



Underlay H 55080 – Lead free - for the Heraeus One Fire Etching Imitation System for porcelain

1 General Information

H 55080 is a lead free special underlay for the Heraeus One Fire Etching Imitation System for porcelain.

In an original etching decoration first parts of the substrate glaze need to be removed by using hydrofluoric acid. In the second step the precious metal gets applied. At the lower parts, where the glaze has been removed, the bright precious metal shows a silk matt appearance, on top of the glaze a bright appearance.

The Heraeus One-Fire-Etching-Imitation-System allows to produce a similar optical effect without the need to work with aggressive acid. It is a decal system consisting of a special white underlay which creates a matt surface, plus a bright relief for a raised effect and the special bright metal paste on top.

2 Recommendations for the usage

For the pasting of the lead free underlay H 55080 we recommend a mixing ration of 100:50 parts by weight (underlay : silkscreening oil) with special silkscreening oil No 238/3.

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.

Important note! Do not print special underlay + relief decals on stock. It is not possible to store decals printed with a special underlay/relief in order to print the bright gold paste at a later time. The complete decal needs to be freshly printed as explained above.



For the printing of the special underlay we recommend the usage of a 130-34 polyester screen. The underlay has the task to create a thin layer with a rougher surface so that the bright gold paste on top will show a semi-matt finish.

For more details about the Heraeus One Fire Etching Imitation System please check our Product Information Sheets for the Heraeus One Fire Etching Imitation System for Porcelain.

3 Storage

H 55080 is a lead free colour powder. The material should be stored in dry environment.

4 Safety data information

For safety data information please check our Safety Data Sheet for Underlay H 55080.