

Application of Electroforming Technique on the Artistic Glass Works

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The trend for technological developments and seeking innovations in the common ground of art and science is increasing. One of these issues is creating a new design on the artistic glass and ceramic by electroforming technique which desired pattern is coated in the form of metal layer on the surface of material.

Electroforming is creating a layer on a mostly conductive also non conductive material surface. Nowadays the usage of glass materials as a surface for electroforming has an increasing demand. Additionally this kind of process can be used for artistic purpose as a decorating technique. In this study glass is preferred as surface. Artistic glass works made with a variety of glass forming techniques are created then desired patterns are deposited on the glass surface by electroforming method. Copper is one of the best and common used material for this technique which is compatible in terms of thermal expansion with glass was preferred as coating material.

In other countries this decoration technique is commonly applied by glass artists. But in our country according to our research this technique is not used in the form of artistic coating on the glass material as a thesis subject in academic standards. The work in this sense is an important step for demonstrating that electroforming technique is an alternative method to make coating and decorating on glass material. Also, in academic term, it is a stage that connects the art and science.

Keywords: Coating, Electroforming, Electroforming on glass, Artistic coating, Copper electroforming