

ACTIVATION OF CERAM PIGMENTS
WITH THE USE OF LASER RADIATION

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ABSTRACT *Some ceram pigments may permanently change colour after irradiation by laser radiation, what is referred to as activation in the presented work. Paper presents results of laser activation of ceram pigments that were developed at the Institute of Ceramics and Building Materials for colouring of ceramic products. CW and short-pulse lasers were used. Some examples of engraving at excessive and activation at moderate fluence are shown. The pure activation without any traces of engraving on smooth and glossy product surface can take place for optimized range of laser processing parameters, and a number of colourants.*

Keywords: *laser processing, mineral pigments, laser adornment, laser activation of mineral pigments*