

THE ENGOBING INNOVATIVE TECHNOLOGY OF PRODUCTS FROM CONCRETE

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Now development of innovative technologies in the Russian Federation is the defining factor of increase of competitiveness of domestic goods in the conditions of negative impact of economic sanctions of the EU, the USA and other countries [1, 2]. The major factors promoting increase of competitiveness of goods of the Russian production are decrease in energy consumption and essential increase of their quality in comparison with foreign analogs [3, 4].

It is known that an engobing of wall construction materials by method of a plasma dusting – the perspective direction of creation of innovative technologies and receiving competitive production [5].

The innovative technology developed by us provides an engobing white and color engobes of concrete panels for civil and industrial engineering by method of a plasma dusting. High temperatures of a plasma torch about 500-1000 °C, allow to melt the furnace charge powder coming to a plasma torch for short periods and to apply a stream of the melted particles on previously prepared panel from concrete or reinforced concrete. This technology of receiving protective and decorative coverings by method of a plasma oplavleniye and a dusting in comparison with traditional labor-consuming and power-intensive techniques allows to reduce prime cost of the final product significantly.

The developed structures for an engobing of products from concrete includes kaolin's, white the burning down clays, ceramic pigments and plavn.

Thickness of an engobing covering makes 300±25 microns. The covering possesses high rates of reliability and durability in particular increased by durability of coupling of a covering with a basis and frost resistance.

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