

INNOVATIVE PLASMA TECHNOLOGY OF RECEIPT OF PROTECTIVE AND DECORATIVE COVERINGS ON THE BLOCK FOAMGLASS

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Block foamglass is effective heat-insulating and constructional material. For increase in architectural and art properties of buildings and constructions its front surface is required additional facing by a ceramic tile that significantly increases the cost of installation and construction works.

It is known that the plasma technology of receipt of protective and decorative coverings is high-productive and allows to receive protective and decorative coverings with high estetiko-consumer properties [1, 2].

By us the plasma technology of receipt of protective and decorative coverings on a block foamglass is developed. As initial material used block foamglass of the standard sizes on which front surface before a plasma oplavleniye applied specially formulated paste. This paste includes mix of color stekloroshk, fight of sanitary and construction ceramics and water solutions of liquid glass in the structure. Srednemasovoy temperature of a plasma torch in case of an oplavleniye of a front surface of block foamglass with paste constituted 7675 °C in case of speed of 16-18 mm/page.

As a result of a plasma oplavleniye the high-quality glaze covering which microhardness and frost resistance constituted 5630 MPas and more than 50 cycles of freezing thawing respectively was formed. Therefore the developed innovative technology is recommended for implementation at the entities on release of a block foamglass.

List of references:

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