



MATERIALS

Chalyi A.O. **Modern waterproofing**

Advantages of penetrating waterproofing materials before the membrane-type materials are analyzed in this paper (p. 8).

Putty from «A» to «Z»

This paper describes properties and specifications of different types of fillers and also introduces new polymer putty KNAUF-Polymer Finish (p. 10).

Colored masonry mortars V.O.R.

Quick-mix team developed unique formulations of colored masonry mortars V.O.R. which can emphasize the overall color scheme of the facade from the front of the stone and besides to solve all the issues of building physics and chemistry of the facade, improving the efficiency of masonry technologies and further reliable operation of the facade. That's the topic of this article (p. 12).

EQUIPMENT

Voitovich V.A., Zakharychev E.A., Kart M.A., Tarasov S.G. **Devices of vortex band is an import substitution equipment for powders and emulsions production**

The article describes the technological characteristics of the vortex band devices used for grinding mineral solids. These devices passed a comprehensive «run-in» in the Soviet time, showed the highest efficiency. Dispersion in them can cost in tens times is cheaper, since the crushing occurs primarily due to the dynamic impact – the most efficient grinding method (p. 15).

Bukreev A.N., Bikbau M.Ya. **Optimal technological scheme for nanocements production**

This article considers the technological scheme of grinding process – main stage

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production of the nanocement, which is an optimization in energy and labor costs relative to the required particle size characteristics such as the fineness of grind, the grain structure (p. 20).

TECHNOLOGIES

Sargsyan G.G. **Twin-pack technology for production of dry building mixes**

Article deals with the problems arising in the production of mixtures and solutions. The proposed technology can significantly improve the performance of manufacturers and replace imported price-modifying chemical additives in the form of powders with local ones as latex emulsions and etc. Moreover, this technology will improve the quality of the finished mortar by mixing all the components in the mixture (p. 31).

INFORMATION

Deryugin L.M. **On the standards for cements**

According to the author of the article, updating the regulatory framework regarding cements suffer from inconsistencies, flaws. New standards to facilitate cement production without any warranty of product's high quality. This could tell on decrease in durability and reliability of concrete structures. It is argued that in modern conditions to abandon GOST 10178-85 clearly premature (p. 35).

Yudovich B.E., Zubekhin S.A. **Pre Standard for nano-modified Portland cement, testing and application features**

As for these authors of the paper, approval and commissioning of PNST 19-2014 «Nano-modified cement. Technical conditions» renewed regulatory framework of composite cements and took a step forward in the implementation in the construction industry (p. 39).



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