



**Russian polymeric floor market grown by 34% in 2018**

The Russian Association of Polymer Floor Manufacturers assesses the polymer floor market in Russia every year and gives an expert assessment of the obtained figures. In 2018, sales of polymer floors amounted to 25 thousand tons, which is 34% higher than the 2017 figure (p. 8).

**MATERIALS**

**Dry building Bundex mixtures: a recipe for success**

Bundex Russland is a manufacturer of dry building mixes. The company is only 4 years old in the Russian market. For such a short time, Bundex mixes occupied shelves of large chain stores in 28 regions of Russia. Today the Bundex product line includes blends for all types of construction work (p. 10).

*Krasnova N.A.* **Formula of reliable partnership**

Paper is about the marketing policy of Dyckerhoff in Russia, which allowed the company to take a leading position in the market of cement producers for the manufactory of dry building mixes (p. 12).

*Kuzmina V.P.* **Mechanically activated pigments and the practice of their use in construction paints**

The assortment and scopes of mechanical activated pigments in building paints and the results of first coats are considered in this article. Also it is analyzed the way of mechanical activated pigments application in manufacture of oil paints and pentaphthalic enamels. Proposals of the construction industry are a new direction in the development of the technology for the production of building paints and varnishes in an industrial volume (p. 15).

**EQUIPMENT**

**Mobile plants for the production of dry construction mixtures produced by the Italian company LB Officine Meccaniche S.p.A.**

LB Officine Meccaniche S.p.A. was founded in 1973 in the ceramic region of Sassuolo (Modena, Italy) and quickly became the world leader in the design and manufacture of complex plants for the processing of bulk materials. This article introduces the equipment that the company offers to the Russian market of dry mixtures (p. 20).

*Koshevar V.D., Shkadretsova V.G., Busel D.A., Kazhuro I.P.* **Waterproofing composition based on aqueous dispersion of epoxy oligomer**

The mechanism of formation, structure and properties of waterproofing coatings based on water dispersion of epoxy oligomer and Portland cement are investigated. It is established that the strength of the polymer-concrete stone formed depends on the efficiency of the simultaneous processes: hydration of cement clinker and spatial cross-linking of macromolecules of epoxy oligomer immobilized on the micro surface of mineral neoplasms. The ability of a material to withstand the influence of aggressive environment, maintain

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its operational usefulness over a long service life, nature and degree of interaction of mineral and organic structures of polymer-concrete compositions and adhesion to the substrate is determined by its surface properties (p. 22).

**TECHNOLOGIES**

*Kelekhsaev V.B., Stas G.V.* **Optimization of concrete mix preparation parameters**

The issues of cement saving as the most expensive component of concrete in the construction of mining facilities through the use of mineral additives and activation in a ball mill are considered. It is shown that additives as binders increase the strength of concrete with an increase in the consumption of the complex binder. It was determined that the strength of concrete based on a binder activated in a ball mill enlarge with increasing grinding fineness and yield of the active fraction (p. 29).

*Pshenichny G.N.* **The nature of the David Hadley small grains**

The author draws attention to the fact that for many decades there is no clarity with the small torus-like grains of D. Hadley found in the hydrated Portland cement. Is it the reason why it's impossible to explain this phenomenon from the standpoint of crystalline «hardening theories» of Portland cement? If we recognize that the interaction of the solid clinker phase and water is carried out by the stepwise formation at the interface of the transition state, then it will be possible to eliminate the numerous «white spots» of concrete, including the physical nature of the «Hadley grains» (p. 33).

**INFORMATION**

*Anton Pogorelsky.* **My home is my rock: 5 architectural solutions for misanthropes**

This paper deals with the unusual designs of architects offering lovers of solitude and romance comfortable homes in places that it would seem hardly suitable to implement bold design ideas (p. 38).

**BALTIMIX ASIA 2019. Results and prospects**

The 2nd International Conference on dry building mixtures for Asian countries BALTIMIX ASIA 2019 was held with the support of the Ministry of Industry and Infrastructure Development of the Republic of Kazakhstan in Almaty, Kazakhstan on April 29-30, 2019. Editorial board informs about this event (p. 41).

**EVENTS**

*Kopylov I.A.* **International Forum on Digitalization of Construction. Results and prospects**

The Digital Construction Forum (DCF2019) took place at the SAP Digital Leadership Center on May 21. On the first day more than 1,000 delegates attended the event. Among them were representatives of the construction industry and the real estate market, designers and architects, directors and managers of technology companies, experts in the field of digital technologies and developers (p. 42).



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