

## ABSTRACTS

UDC 691.175:666.96+541.1

Improving the performance properties of concrete structures through the use of waterproofing materials / Pushkarova K.K., Suhanevich M.V., Bondar K.V., Martsikh A.S. // Collection «Building materials, products and technical equipment». – 2012. – №44. – P. 10-14; fig.: 2. Bibliogr.: 5 titles.

In article results of binder composition CEM II, containing to 30% of domain granulated slag, natural zeolite additive and complex additives of electrolytes use efficiency, for reception of penetration action waterproofing coverings are resulted.

UDC 666.94

Influence of additives on hydrated lime properties / Khita A.S., Yakimechko Ya.B. / Collection «Building materials, products and technical equipment». - 2012. - №44. - P. 15-23; Fig.: 10. Bibliogr.: 8 titles..

The article deals with changes in the properties of hydrated lime under the influence of chemical additives such as boric acid, sodium and sucrose. Also, the combination of chemical and mechanical activation, resulting in increased dispersion of hydrated lime and its capacity to carbonization.

UDC 666.972

Drying shrinkage of cellular concrete in course of equilibrium moisture content achievement / Voloshyna T.M. // Collection «Building materials, products and technical equipment». - 2012. - №44. - P. 25-33; tabl.: 3, fig.: 5. Bibliogr.: 6 titles.

In article results of cellular concrete firm phase interaction intensity with environment research are resulted. Reduction of level of shrinkable pressure in cellular concrete at dehydration is reached at the expense of increase crystallizing cementing substance and change of pores volume distribution function on their radiuses towards increase. Recommendations about reception low-shrinking property silicate autoclave concrete are given.

UDC 666.972

Researches of autoclaved cellular concrete mass transfer processes in natural conditions / Lapovska S.D., Voloshyna T.M., Vudvud T.M. // Collection «Building materials, products and technical equipment». - 2012. - № 44. – P.34-39; tabl.: 3, fig.: 3. Bibliogr. 8 titles.

In article results of natural tests of protecting designs from autoclaved cellular concrete marks on average density D300, D400, D500 and D600 are resulted. By results of researches the data about moisture conditions and physic-technical characteristics of cellular concrete during the various time periods after manufacturing and installations of products in protecting designs of buildings are received.

UDC 666.973

Influence of soaking compositions on operating properties of cellular concrete / Lobanov O.Yu., Sviderskiy V.A. // Collection «Building materials, products and technical equipment». - 2012 - №44. - P. 40-44; fig.: 1; tabl.: 4. Bibliogr.: 6 titles.

The chemical properties of soaking compositions and starting cellular concrete was researched and were shown the influence each of them on operating properties of concrete. The benefit of concrete surface modification with increasing its properties for the ability of more widely application in building are represented.

UDC 621:006.354; 699.86

Role of autoclaved aerated concretes in apartment houses energy-savings / Serdyuk T.V., Serdyuk V.R. // Collection Building materials, products and technical equipment. - 2012. - № 44. - P. 45-50; Table 4. Fig .2. Bibliogr.: 6nazv.

Adjusted comparative analysis enerhoyekosti GDP growth dynamics of thermal resistance walling. The calculated relative rates of housing construction in some CIS countries and prospects for growth are shown in output autoclaved aerated concrete as the most effective wall material.

UDC 666.762.1:698.9.03+614.842

Protection of wood alkali aluminosilicate compositions from action of atmospheric and fire factors / Guzii S.G., Kryvenko P.V., Kravchenko A.V. // Collection “Building materials, products and technical equipment”. - 2012. - № 44. – P. 52-60; fig. 7. Bibliogr.: 22 titles.

The paper presents data on the protection of wood against fire. It is shown that alkali aluminosilicate compositions modified with a mixture of polyoxyethylene Agocel S2000 and Walocel MT 400 PFV flame treatment wood (180 days), a distinguished term exposure is not flammable (flame exposure - 120 seconds, the temperature of the flame - 1300°C) and are characterized by the criterion of minimum rate of fire, 0.0032 kg/s·m<sup>2</sup>, which is 2.3 times lower than the rate of fire exposed timber.

UDC 667.637.2

Heat resistance polymers silicate composition on base of poliiuzionats / Ignatova I.V. // Collection “Building materials, products and technical equipment”. – 2012. - №43.– P.61-66; tabl.: 4. Bibliogr.: 9 titles.

In this article describes the main properties and characteristics of heat-resistant polymersilicate composition based on poliiuzionates.

UDC 691.5:699.82

Analysis of waterproofing systems "failure" work reasons / Karapuzov E.K. // Collection «Building materials, products and technical equipment». – 2012. - №44.– P.67-71: Fig.: 9.

In article four basic groups of the reasons of "refusal" of work of systems of a waterproofing are considered. The first can be carried to the designing lacks, the second - to infringement of technology of performance of works, third - to absence of accurate regulations of operation of systems and the fourth - to absence of accurate "game rules" in the market of waterproofing materials because of imperfection of standard base. On separate examples the analysis occurring to waterproofing systems when one of the resulted reasons is not considered at least is carried out. The conclusion that compounding-technological possibilities of waterproofing materials cannot be universal is drawn, is economically inexpedient to apply the same materials with similar physical-mechanical characteristics under various kinds of water loadings or materials of protecting designs with a various crack resistance category.

The thickness of a layer of a waterproofing should will be defined at decision-making that will allow to optimize an economic component of the is constructive-technological decision on the basis of observance of a principle of conformity «water loadings - a condition of a material of a design - possibilities of waterproofing materials - possibilities of manufacturers of works - economic feasibility» at obligatory maintenance of reliability and the maximum durability of waterproofing systems.

UDC 614.842

Research of conditions of decrease in intensity of biological degradation of the materials containing cellulose / Tsapko Yu.V. // Collection "Building materials, products and technical equipment". - 2012. - № 44. – P. 72-80: fig. 5. Bibliogr.: 9 titles.

A mathematical model of the biodegradation of cellulose materials. A parameter estimation, and biodegradation is determined that the rate of biodegradation biosecurity shifts in terms of more hours.

UDC 666.9

The use of waste in the production of cement-asbestos materials/Hubska A.G., Vassilieva L.V., Kuzmenkov M.I.// Collection "Building materials, products and technical equipment". - 2012. - № 44.-P.82-85: tabl.: 2; Fig.: 1.

This article describes the results of research on the development of technology for processing waste and asbestos-cement based decorative materials.

UDC 691.311

Dry mix for construction of floors on the basis of modified gypsum binders and phosphogypsum / Dvorkin L.I., Myronenko A.V., Polishchuk-Herasymtchuk T.O.// Collection "Building materials, products and technical equipment".–2012.-№44.–P. 86-92.: tabl.: 4; fig.: 1. Bibliogr.: 7 titles.

The article points on the special features of floor arranging method on the basis of high strength modified gypsum binding of  $\beta$ -modification. Optimal composition was determined to obtain high quality floor that conform the requirements of standard. The results of experimental investigations are represented.

KREISEL. Effective materials at construction of internal and external walls / Zaika Yu.A. // Collection «Building materials, products and technical equipment».–2012.-№44.–P. 93-10: tabl.: 3; fig.: 4.

UDC 666.972.125:553.535+691.56

Present and future of dry mixes with expanded perlite use /Natsievskiy S.Yu., Alekseeva L.V. // Collection "Building materials, products and technical equipment".–2012.-№44.–P.102-104: tabl.: 1.

In article recommendations about expanded perlite application in dry building mixes are resulted.

UDC 691.3

Substantiation of a choice of salts-electrolytes for containing calcite and fiberglass complex additives in waterproofing dry mixes / Plugin A.A., Kostyuk T.A., Saliya M.G., Bondarenko D.A., Partala N.N. // Collection "Building materials, products and technical equipment".– 2012.-№44.–P.105-108: fig.: 2. Bibliogr.: 10 titles.

In this article describes. The questions of choice of salt-elektrolits are in-process considered for complex addition in waterproofings dry mixtures, including calcis and fiberglass. Is it rotined that dispersible calcis and fiberglass are additions 3 classes - oppositely charged lining for education, accordingly, gidrosilicate of calcis and crystallohydrats with the positive sign of charge of surface. As chemical additions most optimum additions of tourist class of the second and third groups were chosen. The electronic microscopy of cement stone confirmed the rightness of choice of these additions, because on-the-spot fiberglass with the subzero sign of charge of surface the crystallohydrats of ettringit were formed, gidroaluminat of calcis, portlandit and calcis with the positive sign of charge.

UDC 69:339.13; 69.659.1

Pressing questions of dry building mixes manufacture in Ukraine. 2012 / Yamenko A.B. // Collection «Building materials, products and technical equipment».–2012.-№44.–P. 109-111: Fig.: 1.

In article the basic tendencies of development of the Ukrainian market of dry building mixes are analysed.

UDC 666.914-41:69.022.51

Experience of energy use efficiency increase at gypsum cardboard plates manufacture on enterprise «Knauf Gypsum Kiev» / Gavrish A.M. // Collection «Building materials, products and technical equipment».–2012.–№44.–P.113-118: tabl.: 2. Bibliogr.: 8 titles.

In article questions of decrease in power inputs are considered by manufacture plaster binders and gypsum cardboard plates. Introduction examples of energy-saving production technologies at group KNAUF enterprises are resulted.

UDC 691.5

Influence of complex modifying additives on flow characteristic of plaster mortars from gypsum-containing substances for furnish of premises with the increased humidity / Gasan Yu.G., Kirirlenko D.A. // Collection Building materials, products and technical equipment.–2012.–№44.–P.119-121: Tabl.: 1, fig.: 2. Bibliogr.: 5 titles.

Resulted results of researches of containing gypsum of clout mixtures for finishing of facades and optimum composition of mixture is offered.

UDC 666.97

Working out of a new kind of finishing plaster materials in Respublik of Belarus / Gubskaja A.G., Lebedeva O.N., Lomashuk T.V., Melenko V.S.// Collection «Building materials, products and technical equipment».–2011.–№44.– P.122-127: tabl.: 1; fig.: 5.

In article results of researches on working out of technology of dressing гипсокартонных sheets and influence of a kind of a covering on their properties are resulted.

UDC 666.97

Method of gypsum concrete with dense aggregate composition design / Dvorkin L.I., Zhitkovsky V.V. // Collection “Building materials, products and technical equipment”.–2012.–№ 44.–P. 128-132: fig.: 3. Bibliogr.: 3 titles.

The existing methods of predicting the strength and water requirement of gypsum concrete was analyzed. The empirical according to the definition of strength and placeability are proposed. The composition of gypsum concrete on dense aggregate determining method is formulated and

UDC 69:339.13; 69.659.1

Results of marketing researches of gypsum cardboard plates Knauf sales in a trading network “Epicentr-K” / Zakharchenko P.V., Gavrish A.M., Atari-Kolumb B.Yu. // Collection «Building materials, products and technical equipment».–2012.–№ 44.–P.133-138: tabl.: 2. Bibliogr.: 4 titles.

In the article the results of marketing researches of development of dry building are resulted in Ukraine on the example of retail business the flags of Knauf in the network of build supermarkets “Epicentr K». The special attention is spared specific point-of-sale aspects, namely: to warehousing, marking, letup of products, price policy and work with users.

UDC 666.914-41:69.022.51

Plate materials on the market drywall Ukraine /Kalugina O. // Collection «Building materials, products and technical equipment».–2012.–№ 44.–P.139-142; fig.: 3. Bibliogr.: 3 titles.

As part of the system for the study of aspects of the market for dry construction materials carried out market research range of gypsum board materials. Due to the nature of drywall were examined trends in the market of construction materials for home construction and market materials for decoration.

UDC 691.5

The modified composite gypsum-containing binder and mortars on its base / Chervenko E.N. // Collection “Building materials, products and technical -ment”. - 2012. - №44. - P.143-153: fig.: 11, tabl.: 1. Bibliogr.: 4 titles

In the article the questions of the design features of the modified composite gypsum-containing binder. The effect on strength and water resistance ratio of the components of artificial stone cement. The possibility of an effective filling of the modified composite gypsum-containing binders of different characteristics of aggregates. The possibility of obtaining high-mortar mixes.

UDC 666.3.017

Determination glazes and ceramics coefficient of linear thermal expansion / Palienko E.A. // Collection «Building materials, products and technical equipment».–2012.–№ 44.–P.155-157: tabl.: 2. Bibliogr.: 2 titles

The paper justified the basic temperature measurement intervals of coefficient of linear thermal expansion glazes and the main types of building ceramics. The necessity of compliance with special conditions for the preparation of samples for the determination of coefficient of linear thermal expansion ceramics with high humid extension.

*Автор статті несе відповідальність за наданий матеріал.  
Будь-які вимоги до Оргкомітету щодо відповідальності та відшкодування  
моральних або матеріальних збитків, спричинених через помилково чи невірно внесені дані, виключаються.*