

OBTAINING COLD-RESISTANT BARIUM CONCRETE BASED ON WHITE CEMENT USING MARBLE QUARRY WASTE

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ANNOTATION

Production of marble quarry waste and barium products based on white cement. Work has been done to accelerate the production of products using marble waste and save the amount of expensive raw materials, prolong the life of the product. The use of marble processing waste as a filler and the maximum saving of aggregate consumption. The mechanism of product life expectancy and structure formation is based on increasing cold tolerance.

Keywords: Marble waste, white cement, barium products.

INTRODUCTION

Scientists of our country have conducted some studies on the development of the composition of building materials based on industrial waste, improving their structure and properties and increasing their efficiency. Kasimov EU, Gaziev UA, Tokhirov MQ, Samigov NA, Tulaganov AA, Botvina LM, Turopov MT, Kamilov XX and others have achieved significant results in this area in different years on the basis of their research. [7].

The subject is unique, our construction products industry does not have much experience in the production of barriers based on marble waste. There is a lot of scientific work, research and production methods, structural analysis and production technologies based on which my work is carried out. In particular, the production of white cement-based edging technology of **foreign** scientists of the country at the end of the twentieth century, in 1998 Sistrom "marble" patented. That the technology of production of concrete UHPC - ultra: a heavy load on the basis of the use of thin concrete panels. Rubiev IA Construction materials (cement based construction conglomerates) .Bajenov Dyugai, Dvorkin LI through the use of resource-saving construction industry in the country .Gaziev U.A , Akramov in the production of construction materials and industrial wastes , scientists have conducted scientific research.

Currently, Uzbekistan is developing marble mining and production of marble products, according to Uzstroyaterial, Uzbekistan is the second largest producer of natural stone after Russia. The world-famous Gazgan marble, especially in white, is famous all over the world. The main deposits are located in Samarkand and Kashkadarya regions. The potential capacity of local marble deposits is up to 190,000 cubic meters of marble per year. Currently, six large marble deposits are being developed in the country: Gazgan and Nurata (Navoi region), Zarband (Samarkand region), Savukbulak and Tomchiota (Kashkadarya region) and Aksak ota (Tashkent region). The Gazgan deposit in Navoi region is located in Uzbekistan. is the largest deposit. Its total reserves are estimated at 7.576 million cubic meters. Successful solution of problems facing the natural stone mining and processing industry improving the management of technological processes and industrial complexes through computer technology, automation,

modelling methods, rationalization and optimization of natural stone mining and processing. This means that every process engineer must build models of technological processes, formulate and solve problems of rationalization and optimization. Today, marble quarry waste reaches 4-5 million cubic meters per year. The urgency of the topic is to address the problem of recycling waste in the production of rocks. [4]. [5]. White cement differs primarily by its whiteness. They are made of low-iron clinker with added SiO_2 (23.5-25.5%) Al_2O_3 (5.5-7%) and a small amount of Fe_2O_3 (0.4-0.5%). To add a white colour to the clinker. they justify it, that is, they restore Fe_2O_3 to FeO . [3]. [5]. For the experiment, Almalyk MMC JSC 500 grade White Portland cement was used. 500-grade white cement and marble quarry waste, water, sand extracted from marble quarry waste were used. The results of the selected optimal composition gave the expected result. The experiments were carried out in the prescribed sequence, including the study of the growth content of the expected 28-day concrete.

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