

# Classification Of Work on White Cement in The Production of Marble Quarry Waste and Barium Products Based White Cement

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**Annotation:** Production of barrier products based on marble quarry waste and white cement. Accelerate the production of a product using waste marble and save the amount of expensive raw materials, proposing to extend the service life of the product. The use of waste from the processing of marble as a filler and maximum savings on filler consumption. The durability of the product and the mechanism of formation of the structure are theoretically justified.

**Keywords:** Marble, waste, bardiyar, white cement, filler.

## **The basis of the work is white cement, the composition of which is as follows:**

This cement is distinguished primarily by its whiteness or other clear colours. It is made of low-iron clinker with the addition of  $Fe_2O_3$  (0.4-0.5%). For their production, the purest carbonate and sandy clay raw materials are used, in particular, kaolin and its industrial wastes. for mineralizing-binding (plavikov) spar or raw mass **Up** to 1% of silicon-fluoride sodium is added. Adding white colour to clinker justifies it, ie restores  $Fe_2O_3$  to  $FeO$ . Two methods of bleaching - aqueous and gaseous - are used. and gaseous is cooled from 1100-1200 c to 200 c in a sudden sharp cooler.

Their retention time is not earlier than 45 minutes and not later than 10 hours. The strength mark is - 300,400,500. The quality of white and coloured Portland types of cement is determined primarily by their whiteness, brightness and uniformity of colour. White cement According to the level of light, it is divided into three types:

Higher;

BC-1;

BC-2;

The light coefficient for high variety: 80%,

76% for BTs-1;

72% for BTs-2

White cement and coloured Portland types of cement are characterized by a high degree of shrinkage during hardening, changes in abrasion resistance and durability. White cement has several advantages over the traditional analogue: operational properties and aesthetic properties. Due to its beautiful colour, it is widely used not only for construction work but also for the creation of sculptures and other architectural forms. White cement-clinker composition is a type of Portland cement, which differs from the grey analogue by some features of production, areas of use. Clinker mix contains minimal amounts of iron-containing compounds, chromium, manganese. In addition, gypsum, limestone, chlorinated salts are added to whiten the raw material. One of the bleaching components is titanium dioxide in an amount not exceeding 1% of the total mass of cement slurry or concrete.

## **Key features:**

High-quality clinker with a minimum content of harmful chemicals produces not only a blinding white colour but also its excellent performance properties:

Rapid hardening in the initial stage. In the first 15 hours, as the number of gypsum increases, the white cement will have 65% vintage strength. The binder grey portland cement, which has a traditional composition, absorbs this percentage of strength after a much longer period.

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