ARBOLIT CONCRETE

Tlemisov Zayfun Aymuratovish

Karakalpak State University, Master of Construction Materials

zayfuntlemisov@gmail.com

Annotation: Arbolite belongs to the category of lightweight concrete. The main difference between these composite building materials is the presence of wood chips as a filler. Sliver serves as a bonding component in the monolithic composition of cement paste. The second name of arbolita is wood concrete.

Like any other building material, arbolite product has its advantages and disadvantages. If you carry out precise quality control at all stages of production, you can deal with the latter. The positive qualities allow the use of blocks to create large walls, hollow products, thermal insulation boards, mixtures for filling barriers.

Keywords: Arbolite, concrete, building materials, etc.

Arbolite concrete is a Greek word meaning "arbor" tree, "litohos" stone. The structure belongs to the class of very light concrete. It is one of the best building materials today. Wood chips, Portland cement 500 and additional chemicals (hydrochloric acid) are added to the structure. As for the history of arbolite concrete, in ancient times people tried to build houses that were cool in the hot summer in the winter. The oldest houses are made of wood, stone and other building materials. Homes protected people from heat, cold, and tearing animals. The increase in demand

for wood in the Middle Ages increased the demand for this raw material. This has led to the development of new technologies instead. By the middle of the 19th century, the effective use of sawdust had grown exponentially. We recognize the United States as the home of arbolite concrete. In the 19th century, the Russian inventor Kostovish Ogneslov Stepanovish invented the "Paner" from wood. He also invented glue to glue the panels together. And he called it "Arborit."

In the 1930s, the United States underwent tremendous changes. The growth of capitalism has grown exponentially, and the slogan “pay for everything” and rising fuel and coal prices have become a source of concern.

Low-cost housing has become a modern requirement. These houses were low-rise, compact, with high thermal insulation (i.e., cool in summer, warm in winter). In the United States, Arbolit's original name was WOOD STOWN. That is, "Wood" means wood, and "Stone" means stone. Currently, the maximum height of construction of arbolite concrete houses in construction is 2 meters. Block dimensions are 300x200x500 mm. It is 500 mm long, 200 mm high and 300 mm wide. Strength 400… 800 kg / m³, Compression 0.5… 6.0 MPa. As for the structure, it is produced like ordinary concrete. That is, the fillers are wood chips, not gravel. Wood chips (dry), Portland Cement 400 and sand. Arbolite concrete belongs to the class of lightweight concrete. It weighs 15-20 kg. It is an environmentally friendly product, resistant to fire and cold.

When assembled, houses are assembled with concrete or with custom adhesives. It is now common in the construction industry for wood chips to be discarded or destroyed. Instead, we should make extensive use of arbolite concretes. They are more effective than raw gish. Ordinary bricks withstand heat and cold quickly, and arbolite blocks keep the air cool. That is, your home breathes. Insects do not affect the block in the event of any damage. The block does not transport or store them. The 21st century has taught us to use high-quality materials.

List of used literature:

1.Sultonov A.A, Tulaganov A.A “Building materials and technology of materials” Samarkand 2012

2.Qosimov. E “Building Materials of Uzbekistan” T-2003

3.Najimov J.B “Binding materials” Nokis 2018

4.Sokolov A. Nanaznashvili I.X “Doma iz Arbolita” M 2014

5. http://Arbolitdom.ru