

The invention relates to the manufacture of articles from activated building mixes on base of mineral binders. The device for preparing activated building mixes on base of mineral binders includes a cylindrical body (1) with loading upper and unloading lower branch pipes and a vertical drive shaft, onto which it is installed a distributing plate and horizontal arms with pins, placed thereunder. The device also comprises mechanisms for delivery of water and of dissolved therein plasticizing agent, and of air, including nozzles for separate delivery under a pressure of 0,5...6,5 atmospheres opposite to the vertical drive shaft rotation direction of the jets of air and of aqueous solution of plasticizing agent. The nozzles are installed, respectively, onto the inner surfaces of the vertical wall of the cylindrical body (1), inclined in vertical plane and shifted about each other in horizontal plane, respectively, about 15...75° and 45...270°. The distributing plate of the vertical shaft is made with guide margin draft inclined at an angle of 5...50° in vertical plane. Novelty consists in that onto the inner surface of the bottom of the cylindrical body (1) there are installed cavitationstimulative devices, restricting in the points of their placement the areas of vertical section of the mix flow removable by 5...50%. The cavitationstimulative devices are made in the form of radial wedgeshaped flat elements, fixed to the cover of the cylindrical body (1) at an angle of 10...70° with the bottom plane and with the inner surface of the vertical wall, the elements being joined between them in the lower part with respect to the cover of the cylindrical body (1). The diameter of the cylindrical body (1) constitutes 4,5...10,0 parts of its height, and the planes of placement of the axes of the vertical shaft horizontal arms and of the nozzles for delivery of the water and of the aqueous solution of plasticizing agent, fixed onto the inner surface of the vertical wall of the cylindrical body (1) are lower about the inner surface of the bottom of the cylindrical body (1), respectively, with 0,075...0,30 and 0,25...0,70 of its height.

Claims: 24

Fig.: 12

