

The invention relates to the building industry, namely to a process for preparing activated building mixes on base of mineral binder.

The process consists in the continuous supply of mineral binder, air-entraining admixture and water into the mix components mixing zone, including one or more cylindrical chambers placed coaxially and a vertical drive shaft, mixing of components, action thereupon with vertical pins of the horizontal arms of the drive shaft, the mixed components are activated under the action of cavitation power pulses, generated by the encounter of the component particles with the jets of the 0,1...7,5% aqueous solution of air-entraining plasticizing admixture, preliminarily mixed with air, supplied into the mixing zone under the pressure of 0,5...6,5 atm, the jet axes are inclined in vertical plane at an angle of 15...75° and 45...270° displaced in horizontal plane about each other, at the same time the mineral binder is supplied at an angle of 45...60° and it is placed in horizontal plane with a speed of 14,5...47,5 m/s towards the jets of the air-entraining admixture and of the air; also the mix is homogenated by the radial reciprocal spiral movements of the components along each horizontal arm, at the same time upon the mixed components it is additionally acted with hydrodynamic power pulses, generated as a result of pressure local decrease, due to the presence in the flux way of narrowings, each of which occupies 5...50% from the surface of the vertical section of said flux, then in the activated mix outlet zone, namely in the lower cylindrical chamber, it is introduced the aggregate, where it is mixed up to the obtaining of the finished building mix.

Claims: 7