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

The claimed process includes supply of mine-ral binder, pozzolanic admixture, sand and water into the components mixing zone, where there are present coaxially placed one or more cylindrical chambers and a vertical drive shaft. Mixing of components is carried out by the action thereupon with vertical pins of the horizontal arms of the drive shaft. When mixing the dry components with water there is carried out activation of mix components under the action on it with cavitation power pulses, generated by the encounter of the component particles with the water jets preliminarily mixed with air, supplied into the mi-xing zone under the pressure of 0,5...6,5 atm. At the same time the jet axes are inclined in vertical plane at an angle of 15...75° and 45...270° displaced in horizontal plane about each other. The mineral binder is supplied at an angle of 45...60° and it is displaced in horizontal plane with a speed of 14,5...47,5 m/s towards the air and water jets. The mix is homogenized by the radial reciprocal spiral movements of the components along each horizontal arm. 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. The components are mixed up to the obtaining of the finished building mix, at the same time they are preliminarily heated up to the attainment of the final temperature of the finished building mix of 40...90°C. Before mixing 25...65% of components are milled up to a specific surface of 2500....3500 cm<sup>2</sup>/g.

Novelty consists in that for preparation of the building mix is used water, including sea water containing 5000...30000 mg/dm<sup>3</sup> of eco-logically pure mineral salts, including sulphates recalculated for SO<sub>3</sub> 2700...5000 mg/dm<sup>3</sup>. In the mix it is additionally introduced ground caustic lime milled up to the specific surface of 3500...5000 cm<sup>2</sup>/g, where the rest on the sieve N<sub> $extsf{P}$ </sub> 02 constitutes about zero, and on the sieve N<sub> $extsf{P}$ </sub> 008 – less than 4...6% in a quantity, providing for the transformation of the mineral salts contained in the water and in the dry components of the building mix into insoluble components up to 5000 mg/dm<sup>3</sup>, as well as pozzolanic additive milled up to the rest on the sieve N<sub> $extsf{P}$ </sub> 008 less than 10%, in the quantity necessary for providing the concentration of CaO in the aqueous suspension of mineral binder and pozzolanic additive up to 1,1 g/dm<sup>3</sup> in 5 days and 0,85 g/dm<sup>3</sup> in 7 days.

Claims: 2