

A process for manufacturing the building materials based on phosphogypsum-dihydrate to increase the speed of hardening and water-resistance of products comprises predrying the phosphogypsum-dihydrate, milling, moistening, mixing, shaping the products by pressing. While milling an admixture is added of the group of CuO , Fe_2O_3 , NiO , ZnO in a quantity of 0,5-1,5 % from the mixture mass, and the moistening is carried out by an orthophosphoric acid at liquid to solid ratio 0.07-0.15 and total quantity of P_2O_5 2-8 % of the mixture mass.