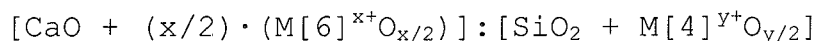


Abstract

The invention relates to a monophase amorphous hydraulic binder containing silicon, calcium and oxygen atoms in an arrangement comprising silicate building units having an average connectedness of at least Q^1 , with none or a part of the calcium atoms being substituted for by a metal atom $M[6]^{x+}$ sixfold or higher-coordinated with oxygen and/or none or no more than 45 atomic percent of the silicon atoms being substituted for by a metal atom $M[4]^{y+}$ tetrahedrally coordinated with oxygen, the molar ratio of



having a value of 0.2 to 1.5, and the binder having less than 3.5% by weight of water, as well as a mixture containing this binder.

Furthermore, the invention relates to methods for manufacturing the binder or a mixture containing this binder by reaction grinding a starting material containing silicate building units having a connectedness of Q^0 to Q^2 , with a solid silicate raw material having a connectedness of the silicate building units of Q^3 to Q^4 and optionally drying the monophase hydraulic binder to a water content of below 3.5% by weight.

Finally, the invention relates to a building material made by setting the binder or a mixture containing this binder with water and subsequent hardening.