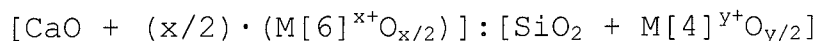


Abstract

The invention relates to a monophase hydraulic binder containing silicon, calcium, oxygen and hydrogen atoms in an arrangement comprising silicate building units having an average connectedness of no more than $Q^{1.5}$ and silanol groups, 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 a part 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 0.75 to 2.75, and the binder containing an H_2O content of 3.5% by weight to 20% by weight, 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 converting calcium-containing and silicate-containing starting materials into a preproduct which at least in part contains a calcium hydroxosilicate, subsequent grinding of the calcium hydroxosilicate until the monophase hydraulic binder forms, and optionally drying the monophase hydraulic binder to an H_2O content of 3.5% by weight to 20% 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.