

The invention relates to a coating composition, especially to a coating composition intended for thermal insulation of hot metals, which contains an aqueous solution of silicate and which consists of the first layer containing 35 to 71 volume percent of hollow glass spheres, 26 to 62 volume percent of an aqueous solution of potassium silicate, 1 to 3 volume percent of an adhesive additive, and 0.1 volume percent of a water glass stabilizer, and of at least one second layer containing 71 to 84.6 volume percent of hollow glass spheres, 9 to 22.6 volume percent of an aqueous solution of potassium silicate, 0.2 to 0.3 volume percent of an adhesive additive, 0.1 volume percent of a water glass stabilizer, 2 to 3 volume percent of cut glass fibres, and 1.7 to 3 volume percent of a styrene-acrylate dispersion. Method of application of the coating composition, especially method of application of the coating composition which consists of at least one layer containing an aqueous solution of silicate according to which, as the first step, the first layer containing 35 to 71 volume percent of hollow glass spheres, 26 to 62 volume percent of an aqueous solution of potassium silicate, 1 to 3 volume percent of an adhesive additive, and 0.1 volume percent of a water glass stabilizer is applied and then the second layer containing 71 to 84.6 volume percent of hollow glass spheres, 9 to 22.6 volume percent of an aqueous solution of potassium silicate, 0.2 to 0.3 volume percent of an adhesive additive, 0.1 volume percent of a water glass stabilizer, 2 to 3 volume percent of cut glass fibres, and 1.7 to 3 volume percent of a styrene-acrylate dispersion is applied onto the first layer.