

The invention relates to the branch of ferrous metallurgy. A long term stabilized suspension, which can be used for covering briquettes, particles, pellets or powder of several kinds of materials for avoiding adhesion between each other and thus the formation of agglomerates when treated at high temperatures having: a solid content of about 52% to 72%; a water content of about 28% to 48%; a viscosity of about 500 to 1,500 cp.; an average particle size of about 1 to 3 microns; an alkaline, alkaline-earth or other metal hydroxide, carbonate or silicate content of about 50% to 70% in weight; a pH value of over 10.5; an equivalent alkaline, alkaline-earth or other metal hydroxide, carbonate or silicate content of 34% to 48%; a specific gravity of 1.4 to 1.6; at least one anionic polyelectrolyte, at a concentration of at least 25%, in an amount of about 0.5 to 2.5% in dry basis and an adherent compound that improves the adhesion of the suspension to the pellets or briquettes during the process, at a concentration of at least 30% in an amount of 0.5 to 5% in dry basis; wherein the long-term stabilized suspension can be stored for at least three months without substantial agitation, and without experiencing substantial settlement and solid hard substrate formations.