

Title (en)

ANIONIC DISPERSIONS, PROCESS FOR THEIR PREPARATION AND THEIR USE AS SURFACE SIZING AGENTS FOR PAPER

Publication

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Application

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Priority

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Abstract (en)

[origin: EP0039794A1] 1. An anionic dispersion produced by a two-stage polymerization reaction, a mixture of nonionic ethylenically unsaturated monomers containing sulphonic acid groups being copolymerized in the first polymerization stage in the manner of a solution copolymerization in a water-miscible solvent in the presence of a polymerization initiator, which is soluble in the monomer mixture, to give a homogeneous solution, and, after dilution with water, polymerization being carried out in the second polymerization stage in the manner of an emulsion polymerization in the presence of a usual amount of a water-soluble polymerization initiator, characterized in that in the first polymerization stage a mixture of a) 85 to 55% by weight of nonionic ethylenically unsaturated monomers, and b) 15 to 45% by weight of ethylenically unsaturated monomers containing sulphonic acid groups is copolymerized in the presence of 0.015 to 0.15 mole of a polymerization initiator, which is soluble in the monomer mixture, per mole of monomer mixture, the homogeneous polymer solution is diluted with water in a weight ratio of 1 : 3 to 1 : 50, and 1 to 4 parts by weight of at least one nonionic ethylenically unsaturated monomer per part by weight of the solution polymer are polymerized in this polymer solution in the second polymerization stage.

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