

Title (en)

AQUEOUS POLYMERIC DISPERSIONS OBTAINED BY RADICALLY INDUCED EMULSION POLYMERIZATION PERFORMED IN THE PRESENCE OF A COMPOSITION OF MOLECULAR WEIGHT REGULATORS

Title (de)

WÄSSRIGE POLYMERDISPERSION, ERHÄLTICH DURCH RADIKALISCH INITIIERTE EMULSIONSPOLYMERISATION IN GEGENWART EINER MOLEKULARGEWICHTSREGLERZUSAMMENSETZUNG

Title (fr)

DISPERSIONS POLYMÉRIQUES AQUEUSES, OBTENUES PAR POLYMÉRISATION RADICALE RÉALISÉE EN PRÉSENCE D'UNE COMPOSITION D'AGENTS RÉGULATEURS DE POIDS MOLÉCULAIRE

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Abstract (en)

[origin: WO2012025545A1] The invention relates to an aqueous polymer dispersion containing a polymer, which can be produced by a radically initiated emulsion polymerization from ethylenically unsaturated, radically polymerizable monomers, wherein the polymerization of the monomers is carried out in the presence of a specific molecular weight regulator composition. The molecular weight regulator composition contains at least one mercaptoalkylcarboxylic acid ester of a C2 to C4 carboxylic acid and at least one oligomeric compound of formula $R1-X-(A-S)_n-A-Y-R2$, where R1 and R2 denote H or $CH3-(CH2)0-2-C(=O)-$, X and Y denote an oxygen atom or a sulfur atom, A denotes a divalent C1- to C18-alkylene group, and n denotes a number from 1 to 8. The invention further relates to a method for producing the aqueous polymer dispersion. The polymer dispersion can be used as a binder, adhesive, sizing agent for fibers, for producing coatings or for producing paper coating compounds.

IPC 8 full level

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