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(54) Title: PROCESS FOR THE PREPARATION OF DISPERSIONS OF CROSS-LINKING AGENTS IN WATER

(57) Abstract: A process for the preparation of stable aqueous polycarbodiimide dispersions to be used as cross-linking agents, in which initially an isocyanate functional polycarbodiimide is prepared from a polyisocyanate and a mono- or polyisocyanate which contains a hydrophobic group. Thereafter the polycarbodiimide chain is capped and/or extended by reaction of the isocyanate functions or a part thereof with a hydrophilic amine- or hydroxy functional compound and of the remaining isocyanate functions with an amine- or hydroxy functional compound which contains hydrophobic groups, after which the obtained product is dispersed in water and the pH is adjusted to 9-14. The hydrophobic groups are hydrocarbons with 4-25 carbon atoms, fluorinated hydrocarbons, silicone functional hydrocarbons or polysilicones. Further, the invention relates to a coating mixture in which the polycarbodiimide dispersion is used as cross-linking agent and to the cured material obtained with the coating mixture.

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