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(54) Title: AQUEOUS COATING COMPOSITIONS BASED ON SELF-CROSSLINKING POLYURETHANE DISPERSIONS

(57) Abstract: The present invention is drawn to an aqueous polyurethane dispersion comprising: - anionic polyurethane particles comprising both free pending carboxylate groups of formula $\text{-COO}^- \text{M}^+$ where M^+ is a cation resulting from neutralization of carboxylic acid groups with a base, and pending carboxylate ester groups resulting from esterification of free carboxylic acid groups with an epoxysilane, - crosslinking particles made of water-insoluble transition metal compounds. It is also drawn to a method of coating a substrate comprising applying such an aqueous polyurethane dispersion onto a substrate and letting it dry, preferably without applying any heat or radiation.



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