

Title (en)

WATER-BASED VINYL COATING COMPOSITIONS OF RESINOUS BLENDS AND THE USE THEREOF

Title (de)

VINYLÜBERZUGSZUSAMMENSETZUNG AUF BASIS VON WASSER VON HARZARTIGEN MISCHUNGEN UND DEREN VERWENDUNG

Title (fr)

COMPOSITIONS DE REVETEMENT VINYLIQUE EN PHASE AQUEUSE A BASE DE MELANGES DE RESINES, ET LEURS UTILISATIONS

Publication

EP 0753018 A1 19970115 (EN)

Application

EP 95914213 A 19950329

Priority

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- US 21960394 A 19940329
- US 21932294 A 19940329
- US 21960194 A 19940329

Abstract (en)

[origin: WO9526373A1] Improved application latitude, including blister resistance, has been found attainable by using a coating formulation that includes a water dispersible resin including the addition copolymerization reaction product of vinyl monomers including an acid group containing monomer, an N-(alkoxymethyl)acrylamide or N-(alkoxymethyl) methacrylamide monomer, and at least one other vinyl monomer, the reaction being carried out in the presence of a solvent including a polyol, wherein the OH groups of polyol molecule are of unequal reactivity. The copolymer may be blended with an amine modified epoxy resin to form a coating composition. Similar advantageous results have been found attainable by using a coating formulation that includes a water dispersible resin comprising the addition copolymerization reaction product of vinyl monomers including an acid group containing monomer and at least one other vinyl monomer, blended with an amine modified epoxy resin, wherein the acid groups in the vinyl addition copolymer were only partially neutralized when making aqueous dispersions. It has also been found that amine defunctionalized epoxy resins, when used in coating compositions, have improved blush and stain resistance when employing reaction ratios near 1:1 equivalent of epoxy group to equivalent of primary amine or ammonia.

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