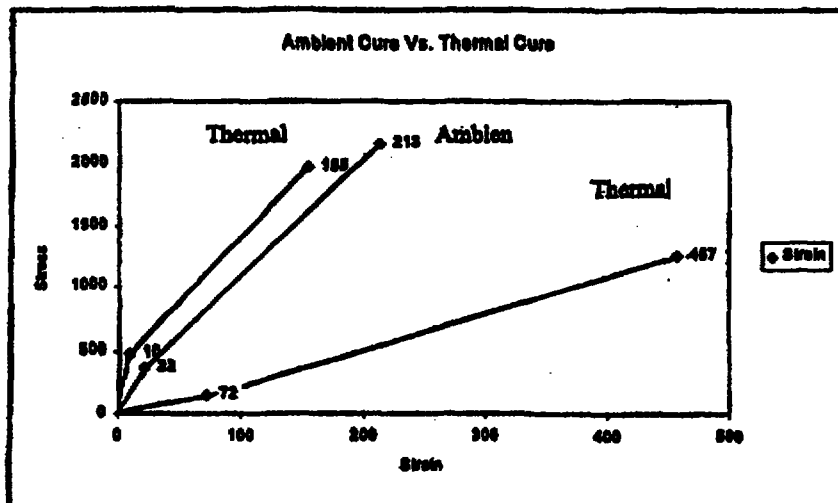




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C08L 101/06, 33/14, C09D 5/02, C08F 6/00 // (C08L 33/14, 87:00)		A1	(11) International Publication Number: WO 97/45490
(22) International Filing Date: 28 May 1997 (28.05.97)		(43) International Publication Date: 4 December 1997 (04.12.97)	
(21) International Application Number: PCT/US97/08809		(81) Designated States: AU, BR, BY, CA, CN, CZ, HU, JP, KR, MX, NO, NZ, PL, RU, SG, SK, TR, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).	
(30) Priority Data: 60/018,423 28 May 1996 (28.05.96) US 60/018,424 28 May 1996 (28.05.96) US 60/028,444 10 October 1996 (10.10.96) US 08/861,431 21 May 1997 (21.05.97) US		Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>	
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(54) Title: STABLE AMINO-CONTAINING POLYMER BLENDS



(57) Abstract

This invention provides the composition, preparation, and end-use of waterborne cross-linking technology-based compositions prepared from water-based latexes. The invention provides a water-based latex comprising dispersed, waterborne amino-functional polymer particles; dispersed, waterborne acetoacetoxy-functional polymer particles; and water. In a preferred embodiment, a latex of the invention comprises dispersed, waterborne polymeric (polyamino)enamine (PPAE) particles; dispersed, waterborne acetoacetoxy-functional polymer particles; and water. The PPAE is the reaction product of a surfactant-stabilized acetoacetoxy-functional polymer (SAAP) and a poly(alkylenimine). The water-based latexes of the invention provide stable emulsions containing a blend of waterborne polymer particles which undergo cross-linking upon film formation. The latex films or coatings may be cured at ambient temperatures or may be thermally cured. The latex is useful in a variety of coating compositions such as, for example, paints, inks, sealants, and adhesives.