

Title (en)  
HUMIDITY CURING HOT MELT ADHESIVE COMPRISING AT LEAST A SILANE FUNCTIONAL POLYURETHANE PREPOLYMER

Title (de)  
FEUCHTIGKEITSHÄRTENDE HEISSSCHMELZKLEBSTOFFE UMFASSEND MINDESTENS EIN SILANFUNKTIONELLES POLYURETHANPREPOLYMER

Title (fr)  
ADHÉSIFS THERMOFUSIBLES DURCISSANT PAR L'HUMIDITÉ CONTENANT AU MOINS UN PRÉPOLYMÈRE DE POLYURÉTHANE AYANT DES FONCTIONS SILANS

Publication  
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Application  
**EP 06830810 A 20061222**

Priority

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- EP 05112960 A 20051223
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Abstract (en)  
[origin: EP1801138A1] Moisture-hardening hot melt adhesive composition (A) comprises at least a silane-functional polyurethane polymer prepolymer compound (I), which is solid in room temperature and exhibits silane group. Moisture-hardening hot melt adhesive composition (A) comprises at least a silane-functional polyurethane polymer prepolymer compound (I) of formula (R 1>-[NH-C(O)-S-R 3>-Si(X) (3-a)(R 2>) a] n), which is solid in room temperature and exhibits silane group. R 1>n-valent organic residue of prepolymer, which is obtained from polyol, polyisocyanate or n-isocyanate group; R 2>1-10C-alkyl; R 3>linear or branched 1-10C-alkylene; X : hydrolysable residue; a : 0-2; and n : 2 or more. Independent claims are included for: (1) a procedure for gluing the substrate S1 with substrate S2 comprising heating (A) at 85-200[deg]C, preferably 120-160[deg]C; applying the heated (A) on a substrate S1; and contacting the applied (A) for one second with substrate S2, where the substrate S2 comprises same or different material as the substrate S1; (2) an article, which was stuck together by gluing procedure; and (3) use of mercaptosilane compound (II) of formula (HS-R 3>-Si(X) (3-a)(R 2>) a) for modifying isocyanate group-containing polyurethane-prepolymer for the improvement of durability (viscosity stability) of a silane functional to be hardened by hot fusion adhesive.

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