

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
5 April 2001 (05.04.2001)

PCT

(10) International Publication Number
WO 01/23451 A2

- (51) International Patent Classification⁷: C08G 18/00 (74) Agent: KUPECZ, Arpad; Octrooibureau Los en Stigter B.V., Weteringschans 96, NL-1017 XS Amsterdam (NL).
- (21) International Application Number: PCT/NL00/00699
- (22) International Filing Date:
29 September 2000 (29.09.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
1013179 30 September 1999 (30.09.1999) NL
- (71) Applicant (for all designated States except US): STAHL INTERNATIONAL B.V. [NL/NL]; Sluisweg 10, NL-5145 PE Waalwijk (NL).
- (81) Designated States (national): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published:
— Without international search report and to be republished upon receipt of that report.
- (72) Inventors; and
(75) Inventors/Applicants (for US only): HESSELMANS, Laurentius, Cornelius, Josephus [NL/NL]; Vughterstraat 151/b, NL-5211 GB 's Hertogenbosch (NL). SPEK, Dirk, Pieter [NL/NL]; Hoog Meeuwen 19, NL-4268 GT Meeuwen (NL).
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 01/23451 A2

(54) Title: PROCESS FOR THE PREPARATION OF A COATING, A COATED SUBSTRATE, AN ADHESIVE, A FILM OR SHEET, FOR THE THUS OBTAINED PRODUCTS AND THE COATING MIXTURE TO BE USED IN THE PROCESS

(57) Abstract: The invention comprises a process for the preparation of a coating, adhesive, film or sheet. In this process a mixture of a polyisocyanate functional, a polyepoxide functional, a polyanhydride functional or a polyketone functional compound or polymer and a compound containing reactive hydrogen, in which the compound containing reactive hydrogen is dispersed in a material which is non-reactive towards the compound containing reactive hydrogen, which mixture is not or low reactive at ambient conditions and high reactive under selected conditions, is applied onto a substrate at ambient temperature, followed by reacting the above compounds at elevated temperatures. At ambient temperature said compound containing reactive hydrogen is a solid material, a powder, a granule, a flake or grind or a mixture thereof which is preferably ground. The invention comprises further the coating mixtures to be used in the process and the coatings, coated substrates, adhesives, films, sheets, impregnated substrates, synthetic leathers, inmould coatings, coated leathers, coated polyvinylchlorides, coated non-wovens, coated coagulated polyurethane substrates, breathable coated substrates, obtained by applying the process.