

Title (en)

AQUEOUS POLYURETHANE DISPERSIONS WITH A SMALL CONTENT OF CYCLIC COMPOUNDS

Title (de)

WÄSSRIGE POLYURETHAN-DISPERSIONEN MIT GERINGEM GEHALT AN CYKLISCHEN VERBINDUNGEN

Title (fr)

DISPERSIONS DE POLYURETHANE AQUEUSES AYANT UNE TENEUR FAIBLE EN COMPOSES CYCLIQUES

Publication

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Application

**EP 06708156 A 20060209**

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Abstract (en)

[origin: WO2006084881A1] The invention relates to aqueous dispersions containing a polyurethane and composed of: a) diisocyanates; b) diols, of which b<SUB>1</SUB> 10 to 100 mol %, (in relation to the total quantity of the diols in (b)) have a molecular weight of between 500 and 5000 and b<SUB>2</SUB> 0 to 90 mol %, (in relation to the total quantity of the diols in (b)) have a molecular weight of between 60 and 500 g/mol; c) monomers that differ from the monomers in (a) and (b) and that comprise at least one isocyanate group or at least one group that reacts with isocyanate groups, said monomers comprising in addition at least one hydrophilic group or a potential hydrophilic group, which induces the water dispersibility of the polyurethanes; d) optionally additional polyvalent compounds, which differ from the monomers in (a) to (c) and which comprise reactive groups, the latter being alcoholic hydroxyl groups, primary or secondary amino groups or isocyanate groups; and e) optionally monovalent compounds, which differ from the monomers in (a) to (d) and which comprise a reactive group, the latter being an alcoholic hydroxyl group, a primary or secondary amino group or an isocyanate group. Said dispersions are characterised in that the diols b<SUB>1</SUB> contain less than 0.5 parts by weight cyclic compounds for 100 parts by weight diols b<SUB>1</SUB>.

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Citation (search report)

See references of WO 2006084881A1

Citation (examination)

EP 0579988 B1 19950308 - BAYER AG [DE]

Citation (third parties)

Third party :

- US 2004242765 A1 20041202 - MUNZMAY THOMAS [DE], et al
- K.H. BUCHEL: "Methoden der organischen chemie", 19 November 1987, GEORG THIEME VERLAG, STUTTGART NEW YORK, ISBN: 3-13-219004-7, article DIETER DIETERICH: "Poly(urethane) [Poly(carbamidsaure-ester)]", pages: 1561 - 1563, 1587, 1597-1599, XP003028386

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