

Title (en)

MULTIFUNCTIONAL STAR-SHAPED PREPOLYMERS, THEIR PREPARATION AND USE

Title (de)

MULTIFUNKTIONELLE STERNFÖRMIGE PRÄPOLYMERE, DEREN HERSTELLUNG UND VERWENDUNG

Title (fr)

PREPOLYMERE MULTIFONCTIONNEL EN FORME D'ETOILE, SA FABRICATION ET SON UTILISATION

Publication

**EP 1987080 A1 20081105 (DE)**

Application

**EP 07722790 A 20070208**

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Abstract (en)

[origin: WO2007096056A1] The present invention relates to coatings whose dynamic contact angle hysteresis measured in water to DIN EN 14370 by means of a Wilhelmy balance is at most 15° and which can be produced from star-shaped prepolymer-nanoparticle complexes and/or star-shaped prepolymers crosslinkable with one another and with the surface of the substrate to be coated, where the star-shaped prepolymer-nanoparticle complexes and/or star-shaped prepolymers have, prior to their crosslinking, at least three hydrophilic polymer branches which are intrinsically soluble in water and which bear, at all of or at some of their free ends, silyl end groups  $R<SUP>1</SUP></SUP>$  of the following general formula (I):  $R<SUP>1</SUP></SUP>$  is  $-CR<SUP>a</SUP></SUP> <SUB>2</SUB></SUB>-$

IPC 8 full level

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CPC (source: EP US)

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See references of WO 2007096056A1

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