

Title (en)
SILANE GROUP-CONTAINING BRANCHED POLYMER

Title (de)
VERZWEIGTES SILANGRUPPEN-HALTIGES POLYMER

Title (fr)
POLYMÈRE RAMIFIÉ CONTENANT UN GROUPE SILANE

Publication
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Application
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Abstract (en)
[origin: WO2021160493A1] The invention relates to a silane group-containing branched polymer having on average at least 2.1 silane groups per molecule, from the reaction of (i) an isocyanate group-containing polymer having an NCO content in the range of 0.7 to 4 wt.%, obtained from the reaction of at least one monomer diisocyanate with at least one polyether polyol in a molar NCO:OH ratio of at least 1.5:1, with (ii) at least one amino-, mercapto- or hydroxysilane, in a stoichiometric ratio of at least one amino-, mercapto- or hydroxysilane per mole equivalent of isocyanate groups. The silane group-containing polymer is storage stable, liquid at room temperature and easy to handle and allows curable compositions characterized by excellent workability, fast curing, high strength with high ductility and surprisingly good thermal stability. The polymer is especially suitable as a component of moisture-curing sealants, adhesives or coatings which in particular contain an additional, particularly linear silane group-containing polymer.

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See references of WO 2021160493A1

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