

Title (en)  
POLYMER CONTAINING SILANE GROUPS

Title (de)  
SILANGRUPPEN-HALTIGES POLYMER

Title (fr)  
POLYMÈRE CONTENANT DES GROUPES SILANE

Publication  
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Application  
**EP 21703265 A 20210203**

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Abstract (en)  
[origin: WO2021160492A1] The present invention relates to a silane group-containing polymer obtained from reacting (i) an isocyanate group-containing polymer having an NCO content in the range of 0.3 to 4% by weight and a monomeric diisocyanate content of at most 0.3 wt.% obtained from the reaction of at least one monomeric diisocyanate with at least one polyether polyol in a molar NCO/OH ratio of at least 3/1 and subsequent removal of a major part of the unreacted monomeric diisocyanates by means of a suitable separation process, (ii) with at least one amino-, mercapto- or hydroxysilane in a stoichiometric ratio of at least 1 mole of amino-, mercapto- or hydroxysilane per mole equivalent of isocyanate groups. The silane group-containing polymer is storage-stable, easy to handle at room temperature without dilution with plasticizers or solvents, and provides curable compositions with excellent processability, rapid curing, high strength with good elongation, and, in preferred embodiments, improved thermal stability. It is particularly suitable as a component of moisture-curable sealants, adhesives or coatings.

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