

Title (en)
WATER-DILUTABLE CROSS-LINKING AGENT

Title (de)
WASSERVERDÜNNBARER VERNETZER

Title (fr)
AGENT RETICULANT POUVANT ETRE DILUE DANS L EAU

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Application
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Abstract (en)
[origin: WO03080695A1] The invention relates to a water-dilutable cross-linking agent that does not comprise any free NCO groups but has at least two blocked NCO groups per molecule and a ratio of blocked NCO groups to OH groups of greater than 3: 1. Said cross-linking agent can be obtained by reacting an alkanolamine with at least one partially blocked polyisocyanate having an NCO equivalent weight ranging from 600 to 10,000 g/MoINCO (with regard to free NCO groups) to form an intermediate product comprising at least one urea linkage resulting from the nitrogen atom of the alkanolamine and of the free NCO group of the partially blocked polyisocyanate followed by adding a cyclic carboxylic acid anhydride, under decyclization, to the OH group of the intermediate product, said OH group originating from the alkanol amine. The invention also relates to the use of this water-dilutable cross-linking agent in the painting of automobiles.

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