

Title (en)

HARDENABLE MIXTURE BASED ON PRODUCTS OF HYDROLYSIS OF ORGANOSILANES AND BLOCKED POLYISOCYANATES

Title (de)

HÄRTBARE MISCHUNG AUS HYDROLYSEPRODUKTEN VON ORGANOSILANEN UND BLOCKIERTEN POLYISOCYANATEN

Title (fr)

MELANGE DURCISSABLE A BASE D'HYDROLYSATS D'ORGANOSILANES ET DE POLYISOCYANATES BLOQUES

Publication

EP 1474463 A2 20041110 (DE)

Application

EP 02782731 A 20021019

Priority

- DE 0203953 W 20021019
- DE 10152853 A 20011025

Abstract (en)

[origin: WO03037947A2] The invention relates to a hardenable mixture comprising at least one product of hydrolysis of an organosilane of general formula $R_{<1>a}R_{<2>b}SiX(4-a-b)$ or of an oligomer derived therefrom, and at least one blocked polyisocyanate. In said formula, $R_{<1>}$ represents a non-hydrolysable radical, $R_{<2>}$ represents a non-hydrolysable radical carrying a functional group, X represents radicals which are the same or different and are selected from the hydroxyl group and hydrolysable substitution products of a hydroxyl group, a is equal to 0 or 1, b represents a value between 0 and 3, and the sum of a and b is equal to 1, 2 or 3, provided that at least one of the substituents $R_{<2>}$ comprises an epoxy group as a functional group. The invention also relates to mixtures containing pigments and/or fillers, a method for producing cross-linked mixtures by reacting products of hydrolysis, namely modified polysiloxanes, with the blocked polyisocyanates, and to coatings and moulded bodies produced thereby.

IPC 1-7

C08G 18/80

IPC 8 full level

C08G 18/28 (2006.01); **C08G 18/80** (2006.01); **C09D 183/06** (2006.01); **C23C 22/74** (2006.01)

CPC (source: EP US)

C08G 18/289 (2013.01 - EP US); **C08G 18/807** (2013.01 - EP US); **C08G 18/8074** (2013.01 - EP US); **C08G 18/8096** (2013.01 - EP US); **C09D 183/06** (2013.01 - EP US); **C23C 22/74** (2013.01 - EP US); **C23C 2222/20** (2013.01 - EP US)

Citation (search report)

See references of WO 03037947A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

WO 03037947 A2 20030508; **WO 03037947 A3 20030703**; DE 10152853 A1 20030515; EP 1474463 A2 20041110; US 2004097641 A1 20040520; US 7776148 B2 20100817

DOCDB simple family (application)

DE 0203953 W 20021019; DE 10152853 A 20011025; EP 02782731 A 20021019; US 45173703 A 20031222