

## Title (en)

ADHESIVE BASED ON A SPECIAL POLYURETHANE UREA, AND PRODUCTION AND USE THEREOF

## Title (de)

KLEBSTOFF AUF BASIS EINES SPEZIELLEN POLYURETHANHARNSTOFFS SOWIE DESSEN HERSTELLUNG UND ANWENDUNG

## Title (fr)

ADHÉSIF À BASE D'UNE POLYURÉTHANE-URÉE ET SA PRÉPARATION ET SON UTILISATION

## Publication

**EP 3478738 A1 20190508 (DE)**

## Application

**EP 17733458 A 20170627**

## Priority

- EP 16177199 A 20160630
- EP 2017065894 W 20170627

## Abstract (en)

[origin: WO2018002076A1] The invention relates to an adhesive that can be produced from an aqueous polyurethane urea dispersion, containing an amorphous polyurethane urea, which can be obtained by reacting at least A) an aliphatic polyisocyanate component having an average isocyanate functionality of  $\geq 1.8$  and  $\leq 2.6$ ; B) a polymeric polyether polyol component; C) an amino-functional chain extender component having at least two isocyanate-reactive amino groups, containing at least one amino-functional compound C1) that has no ionic or ionogenic groups, and/or an amino-functional compound C2) that has ionic or ionogenic groups; D) optionally, further hydrophilizing components that are different from C2); E) optionally, hydroxy-functional compounds having a molecular weight of 62 to 399 mol/g; F) optionally, further polymeric polyols that are different from B); G) a compound that has exactly one isocyanate-reactive group, or a compound that has more than one isocyanate-reactive group, wherein only one of the isocyanate-reactive groups reacts with the isocyanate groups present in the reaction mixture under the selected reaction conditions; and H) optionally, an aliphatic polyisocyanate component having an average isocyanate functionality of  $> 2.6$  and  $\leq 4$ , wherein together, the components B) and F) contain  $\leq 30$  wt% of component F) based on the total mass of components B) and F). The invention further relates to an adhesive layer and to a product comprising the adhesive, to a method for producing the adhesive layer, to a special polyurethane urea, and to the use of the adhesive.

## IPC 8 full level

**C08G 18/08** (2006.01); **A61L 15/58** (2006.01); **A61L 24/04** (2006.01); **C08G 18/10** (2006.01); **C08G 18/12** (2006.01); **C08G 18/38** (2006.01); **C08G 18/48** (2006.01); **C08G 18/72** (2006.01); **C08G 18/73** (2006.01); **C08G 18/75** (2006.01); **C08G 18/79** (2006.01); **C09J 175/02** (2006.01); **C09J 175/08** (2006.01); **C09J 175/12** (2006.01)

## CPC (source: EP KR US)

**A61L 15/58** (2013.01 - EP KR US); **A61L 24/046** (2013.01 - EP KR US); **C08G 18/0828** (2013.01 - EP KR US); **C08G 18/10** (2013.01 - EP US); **C08G 18/12** (2013.01 - EP KR US); **C08G 18/3857** (2013.01 - EP KR US); **C08G 18/4808** (2013.01 - EP KR US); **C08G 18/4825** (2013.01 - EP KR US); **C08G 18/4845** (2013.01 - US); **C08G 18/4866** (2013.01 - EP KR US); **C08G 18/722** (2013.01 - EP KR US); **C08G 18/725** (2013.01 - EP KR US); **C08G 18/73** (2013.01 - EP KR US); **C08G 18/755** (2013.01 - EP KR US); **C08G 18/758** (2013.01 - EP KR US); **C08G 18/792** (2013.01 - EP KR US); **C09J 5/06** (2013.01 - US); **C09J 7/00** (2013.01 - KR); **C09J 175/08** (2013.01 - KR); **C09J 175/12** (2013.01 - EP KR US); **C08G 2170/40** (2013.01 - EP US); **C09J 2301/312** (2020.08 - KR); **C09J 2301/416** (2020.08 - US); **C09J 2475/00** (2013.01 - US)

## Citation (search report)

See references of WO 2018002076A1

## Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

## Designated extension state (EPC)

BA ME

## DOCDB simple family (publication)

**WO 2018002076 A1 20180104**; CA 3027638 A1 20180104; CN 109312044 A 20190205; CN 109312044 B 20220325; EP 3478738 A1 20190508; JP 2019525977 A 20190912; KR 20190023096 A 20190307; US 2019233691 A1 20190801

## DOCDB simple family (application)

**EP 2017065894 W 20170627**; CA 3027638 A 20170627; CN 201780040852 A 20170627; EP 17733458 A 20170627; JP 2018568325 A 20170627; KR 20197002485 A 20170627; US 201716312369 A 20170627