

Title (en)

SINGLE-COMPONENT COATING HAVING ALKOXYSILANE-TERMINATED N-SUBSTITUTED UREA RESINS

Title (de)

EINKOMPONENTENBESCHICHTUNG MIT ALKOXYSILANE-TERMINIERTEN N-SUBSTITUIERTEN HARNSTOFFHARZEN

Title (fr)

REVÊTEMENT MONO-COMPOSANT COMPORTANT DES RÉSINES D'URÉE N-SUBSTITUÉES TERMINÉES PAR ALCOXYSILANE

Publication

EP 2588051 A1 20130508 (EN)

Application

EP 10854202 A 20100629

Priority

US 2010040332 W 20100629

Abstract (en)

[origin: WO2012002932A1] The coating described herein attempts to provide this solution by synthesizing alkoxy silane- terminated N-substituted urea resins, then formulating them into moisture-curable single- component (1K) topside coatings. These coatings will provide greater external stability (to UV and visible radiation), cleanability, flexibility, cure times and lower VOC content than the currently qualified silicone alkyd topside coatings that are found on Navy ships. The single- component coating can include at least an alkoxy silane-terminated N-substituted urea resin, a reactive diluent, a pigment, a filler, and a catalyst. The resin can include an amino-functional silane substituted at the N-position and a non-aromatic isocyanate.

IPC 8 full level

A61F 13/04 (2006.01); **C08G 18/00** (2006.01)

CPC (source: EP)

C08G 18/289 (2013.01); **C08G 18/792** (2013.01); **C09D 175/04** (2013.01); **C08K 3/22** (2013.01); **C08K 3/36** (2013.01)

Citation (search report)

See references of WO 2012002932A1

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 SE SI SK SM TR

DOCDB simple family (publication)

WO 2012002932 A1 20120105; EP 2588051 A1 20130508

DOCDB simple family (application)

US 2010040332 W 20100629; EP 10854202 A 20100629