

Title (en)  
COMPOSITION FOR BUILDING MATERIALS HAVING IMPROVED FREEZE-THAW RESISTANCE AND PROCESS FOR THE PRODUCTION THEREOF

Title (de)  
ZUSAMMENSETZUNG FÜR BAUSTOFFE MIT VERBESSERTER FROST-TAU-BESTÄNDIGKEIT UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)  
COMPOSITION POUR MATÉRIAUX DE CONSTRUCTION À RÉSISTANCE AU GEL-DÉGEL AMÉLIORÉE ET SON PROCÉDÉ DE FABRICATION

Publication  
**EP 2655283 A1 20131030 (DE)**

Application  
**EP 11794425 A 20111124**

Priority  
• DE 102010063561 A 20101220  
• EP 2011070890 W 20111124

Abstract (en)  
[origin: WO2012084401A1] The invention relates to a hydraulically curable composition, in particular for producing concrete, mortar, screed or render, having improved freeze-thaw resistance, which comprises the constituents cement, additives, organofunctional silicon compounds and optionally aggregates and optionally further constituents and which contains the further constituents fly ash and silica dust, in each case independently, in an amount based on the weight of cement of from 1 to 25% by weight and the organofunctional silicon compounds in an amount of from 0.1 to 5% by weight based on the weight of cement. The invention further relates to a process for producing the composition and also to the use of the combination of constituents for improving the freeze-thaw resistance.

IPC 8 full level  
**C04B 24/42** (2006.01); **C04B 28/04** (2006.01); **C04B 40/00** (2006.01); **C04B 40/06** (2006.01)

CPC (source: EP US)  
**C04B 7/345** (2013.01 - US); **C04B 24/42** (2013.01 - EP US); **C04B 28/04** (2013.01 - EP US); **C04B 40/0042** (2013.01 - EP US); **C04B 40/065** (2013.01 - EP US); **C04B 2111/27** (2013.01 - EP US); **C04B 2111/29** (2013.01 - EP US); **Y02W 30/91** (2015.05 - EP US)

Citation (search report)  
See references of WO 2012084401A1

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

DOCDB simple family (publication)  
**WO 2012084401 A1 20120628**; BR 112013015537 A2 20160920; CA 2822512 A1 20120628; CN 103261117 A 20130821; DE 102010063561 A1 20120621; EP 2655283 A1 20131030; MX 2013007025 A 20130913; US 2013284071 A1 20131031

DOCDB simple family (application)  
**EP 2011070890 W 20111124**; BR 112013015537 A 20111124; CA 2822512 A 20111124; CN 201180060828 A 20111124; DE 102010063561 A 20101220; EP 11794425 A 20111124; MX 2013007025 A 20111124; US 201113989205 A 20111124