

Title (en)

METHOD FOR APPLYING AND FORMING A FILM PRODUCED FROM A FILMOGEN POLYMER AQUEOUS DISPERSION ON A SURFACE BASED ON A STILL HUMID MINERAL BINDER COMPOUND, THE THUS COATED MINERAL BINDER COMPOUNDS AND THE USE THEREOF

Title (de)

VERFAHREN ZUM AUFBRINGEN UND BILDEN EINES FILMS AUS EINER WÄSSRIGEN DISPERSION EINES FILMBILDENDEN POLYMERS AUF EINER OBERFLÄCHE AUF DER BASIS EINER NOCH FEUCHTEN MASSE MINERALISCHER BINDEMITELE, SO BESCHICHTETE MASSEN MINERALISCHER BINDEMITELE UND DEREN VERWENDUNG

Title (fr)

PROCÉDÉ POUR DÉPOSER ET FORMER UN FILM PROVENANT D'UNE DISPERSION AQUEUSE DE POLYMÈRE FILMOGÈNE SUR UNE SURFACE À BASE D'UNE COMPOSITION DE LIANTS MINÉRAUX ENCORE HUMIDE, AINSI QUE LES COMPOSITIONS DE LIANTS MINÉRAUX AINSI REVÊTUES ET LEURS UTILISATIONS

Publication

EP 1638903 A1 20060329 (FR)

Application

EP 04767245 A 20040603

Priority

- FR 2004001377 W 20040603
- FR 0306796 A 20030605

Abstract (en)

[origin: FR2855827A1] A method for forming polymer films on mineral binder surfaces involves wet-on-wet coating with a polymer latex to which has been added a water-soluble amphiphilic copolymer, e.g. a copolymer or graft copolymer based on an unsaturated mono- or poly-carboxylic acid or anhydride and a non-aromatic unsaturated hydrocarbon, or a modified polymer of this type. A method for the deposition and formation of a film derived from an aqueous dispersion of film-forming polymer (A) on a surface based on a composition of still-wet mineral binders involves adding a sufficient amount of water-soluble amphiphilic copolymer(s) (B) to the dispersion. Copolymers (B) comprise (i) polymers obtained by the polymerisation of (i) unsaturated mono- or poly-carboxylic acids or their anhydrides (aliphatic, cyclic, linear or branched) (I) and non-aromatic mono-unsaturated hydrocarbons (linear or branched) (II), or (ii) graft copolymers of (II) with hydrophobic, non-aromatic optionally unsaturated 4-30C hydrocarbon chains, possibly with in-chain hetero-atom(s), or (iii) polymers obtained by chemical modification (e.g. esterification, transesterification or amidation) of precursor polymers containing (a) sites onto which non-aromatic hydrophobic residues may be grafted (e.g. carboxylic acid or ester sites) and (b) carboxylic acid un its or precursors thereof. An independent claim is also included for compositions of mineral binders the surface of which is at least partly coated with a film obtained by drying an aqueous dispersion containing (A) and (B).

IPC 1-7

C04B 41/63

IPC 8 full level

C04B 41/48 (2006.01); **C04B 41/63** (2006.01)

CPC (source: EP US)

C04B 41/009 (2013.01 - EP US); **C04B 41/483** (2013.01 - EP US); **C04B 41/4869** (2013.01 - EP US); **C04B 41/63** (2013.01 - EP US); **C04B 2111/21** (2013.01 - EP US); **Y10T 428/31855** (2015.04 - EP US)

Citation (search report)

See references of WO 2004110960A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

FR 2855827 A1 20041210; FR 2855827 B1 20050715; EP 1638903 A1 20060329; US 2006154096 A1 20060713; WO 2004110960 A1 20041223; WO 2004110960 A8 20050217

DOCDB simple family (application)

FR 0306796 A 20030605; EP 04767245 A 20040603; FR 2004001377 W 20040603; US 55964205 A 20051202