

Title (en)

COMPOSITION AND ITS USE FOR IMPROVING THE PROCESSIBILITY OF HYDRAULICALLY SETTING COMPOSITIONS

Title (de)

ZUSAMMENSETZUNG UND DEREN VERWENDUNG ZUR VERBESSERUNG DER VERARBEITBARKEIT VON HYDRAULISCH ABBINDENDEN ZUSAMMENSETZUNGEN

Title (fr)

COMPOSITION ET SON UTILISATION POUR L'AMELIORATION DE LA MANIABILITE DE COMPOSITIONS A PRISE HYDRAULIQUE

Publication

**EP 1966104 A1 20080910 (DE)**

Application

**EP 06819934 A 20061208**

Priority

- EP 2006069495 W 20061208
- EP 05111850 A 20051208
- EP 06819934 A 20061208

Abstract (en)

[origin: EP1795511A1] The polyalkylene glycol has the formula  $R_1 > 1 > -O-(R_1 > 2 > -O)_x-(R_1 > 3 > -O)_y-R_1 > 4 >$ . In this formula,  $R_1 > 1 >$  is H or C 1-C 2 0 - alkyl,  $R_1 > 2 >$  is C 2-C 4- alkylene,  $R_1 > 3 >$  is C 2-C 4 alkylene,  $R_1 > 4 >$  is H or C 1-C 2 0 - Alkyl, x is 0-500, y is 0-500. x+y is up to 20, the molecular weight M w of the polyalkylene glycol is 2000 to 20,000 g/mol. The liquefier comprises a polymer A with a specified structural formula which is illustrated and defined in the disclosure. The polyalkylene glycol is a polyethylene glycol (PEG), Methoxypolyethylene glycol (MPEG) or a polypropylene glycol (PPG), preferably a polyethylene glycol (PEG). The molecular weight M w of the polyalkylene glycol is 4000-6000 g/mol, preferably 5000-6000 g/mol. The composition is a dispersion, solution or powder. It is an aqueous solution. Further additives are contained, preferably organic solvent or water. The polyalkylene glycol content is preferably 25-40 wt%, based on the dry total weight of the composition. The liquefaction agent amounts to 65-75 wt% on the same basis. A hydraulic binding material (cement) is included. The hardened composition (concrete) is also claimed. An independent claim is included for the method of production by mixing.

IPC 8 full level

**C04B 28/02** (2006.01); **C04B 40/00** (2006.01); **C04B 111/00** (2006.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 2007065952A1

Citation (examination)

US 2004204517 A1 20041014 - YAMASHITA AKIHIKO [JP], et al

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