

Title (en)

BINDER ON BASE OF AQUEOUS ALCALIMETALSILICATE SOLUTIONS AND ITS UTILIZATION

Publication

**EP 0387682 A3 19920408 (DE)**

Application

**EP 90104330 A 19900307**

Priority

DE 3908560 A 19890316

Abstract (en)

[origin: EP0387682A2] The invention relates to binders based on aqueous alkali metal silicate solutions having an SiO<sub>2</sub> content of 22 to 33% by weight and a content of glycerol and polyglycerols, which contain: a) 70 to 99% by weight of an aqueous alkali metal silicate solution having an SiO<sub>2</sub> content of 23 to 37% by weight and a molar ratio SiO<sub>2</sub> : Me<sub>2</sub>O of (2.0 to 3.3) : 1, Me denoting sodium and/or potassium and/or lithium, and b) 1 to 30% by weight of a mixture, dissolved in the alkali metal silicate solution, of glycerol and polyglycerols having an OH number in the range from 1560 to 1200, containing, based in each case on the mixture: 70 to 15% by weight of glycerol, 40 to 6% by weight of diglycerol, 5 to 20% by weight of triglycerol, 3 to 13% by weight of tetraglycerol and 12 to 30% by weight of higher polyglycerols, the proportions of the stated individual components of the mixture summing to 100% by weight in each case.

IPC 1-7

**B22C 1/16**; **B22C 1/18**; **B22C 1/20**

IPC 8 full level

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CPC (source: EP)

**B22C 1/188** (2013.01); **B22C 1/20** (2013.01)

Citation (search report)

- [A] EP 0066788 A1 19821215 - HENKEL KGAA [DE]
- [AD] BE 555362 A
- [AD] DE 2641249 A1 19770331 - FOSECO INT, et al

Cited by

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