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(54) Title: FREE-FLOWING POWDER COMPRISING A POROUS SUBSTRATE FUNCTIONALIZED WITH AT LEAST ONE
ACCELERATOR

(57) Abstract: The present invention relates to a free-flowing powder composition comprising at least one substrate, said substrate having pores and an external surface between said pores, wherein said external surface is functionalized with at least one accelerator for a hydraulic setting composition, said accelerator being liquid, or hygroscopic or deliquescent, and wherein after 15 minutes of immersion of said free-flowing powder composition in water at 20°C at least 80% in weight of said accelerator is solubilized, provided that said free-flowing powder composition is immersed in an amount of water sufficient so that the saturation concentration of said accelerator cannot be reached. The invention also relates to a method for preparing said free-flowing powder composition. The invention is further directed to the use of said free-flowing powder composition as an additive for mortar or concrete composition so as to provide an accelerating effect, an anti-ageing effect and an anti-dusting effect. The invention additionally concerns a dry mortar or concrete composition comprising a hydraulic binder, said free-flowing powder composition and a granulate, wet mortar or concrete composition and hardened body obtained therefrom.



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