

NOVEL COPOLYMER AS A WATER-REDUCING AGENT IN A
HYDRAULIC COMPOSITION**Abstract**

The invention concerns novel copolymers obtained by polymerisation from a mixture of monomers comprising: - at least one anionic monomer (a) comprising a polymerisable unsaturated function and a carboxylic group; and - at least one monomer (b) of formula (I): $\text{H}_2\text{C} = \text{C} (-\text{R}_1) - (\text{CH}_2)_p - \text{O} - [(\text{EO})_n - (\text{PO})_m] - \text{H}$ (I) in which $[(\text{EO})_n - (\text{PO})_m]$ represents a polyalkoxylated chain consisting of ethoxylated units EO and propoxylated units PO, distributed into blocks, alternating or statistical, the molar proportion of the ethoxylated units in the polyalkoxylated chain $(n)/(m+n)$ being greater than or equal to 70% and strictly less than 90%. It also concerns hydraulic compositions, for example concrete compositions, comprising such copolymers, and the use of said copolymers as water-reducing agents in hydraulic compositions.

[No Figure]