

## ANTI-SHRINKAGE AGENT FOR HYDRAULIC MATERIAL

## ABSTRACT

The present invention is related to a shrinkage reducing agent for hydraulic materials

5        which comprises at least one polymer selected from the group consisting of

      (a) a polymer having a structure derived from the residue of a compound containing 2 to 30 carbon atoms and one active hydrogen atom by the binding thereto of one oxyalkylene chain  
10       having a carboxyl-containing side chain,

      (b) a polymer having a structure derived from the residue of a compound containing 4 to 30 carbon atoms and two active hydrogen atoms by the binding thereto of at least one oxyalkylene chain having a carboxyl-containing side chain,

15       (c) a polymer having a structure derived from the residue of a compound containing 1 to 30 carbon atoms and at least three active hydrogen atoms by the binding thereto of at least one oxyalkylene chain having a carboxyl-containing side chain

      and (d) a polymer having a structure derived from the  
20       residue of an amine by the binding thereto one oxyalkylene chain having a carboxyl-containing side chain.