

ABSTRACT

A cement admixture of a low environmental load type, capable of reducing hexavalent chromium, having a small slump loss or heat of hydration, hardly neutralized and
5 capable of suppressing autogenous shrinkage to a low level; a cement composition; and cement concrete employing it, are presented.

The cement admixture comprises a slowly cooled slag powder which contains melilite as the main component and
10 which has a carbon dioxide absorption of at least 2%, has a CO₂ absorption of at least 2%, has a loss on ignition of at most 5%, contains at least 0.5% of sulfur present as non-sulfuric acid form sulfur and/or has a concentration of non-sulfuric acid form sulfur to elute,
15 of at least 100 mg/l, and further, preferably, has a degree of vitrification of at most 30%, a melilite lattice constant a of from 7.73 to 7.82 and/or a Blaine specific surface area of at least 4,000 cm²/g.

