

RHEOLOGY OF FRESH CEMENT AND CONCRETE

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ABSTRACT

Cement-based materials are of enormous technological importance and their satisfactory performance depends on being able to transport and mould them in the freshly mixed state. This article describes the rheology of fresh cement, mortar, concrete and related products in the context of practical situations, and deals with testing and measurement, together with the main features of their behaviour. It explores the links between rheology and technology, and identifies areas where these are weak and could benefit from further experimental and computational effort.

KEYWORDS: Cement; concrete; mortar; grout; composites; rheometry; viscoelasticity; thixotropy; modelling.

1. INTRODUCTION AND SCOPE

Portland cement is one of the leading manufactured commodities in the world. It is the principal inorganic binder, used in all kinds of products, and major fields of use are:

- Primary construction materials, mass and reinforced concrete, whether precast in a factory, cast in situ or sprayed onto a substrate
- Precast units for masonry (bricks, blocks and artificial stone)
- Masonry mortar for bedding the units
- Floor, wall and roof finishes, either applied plastic or precast as units
- Grout, pumped into fissured or porous ground strata to seal and strengthen, or around prepacked aggregate in an alternative form of in situ concrete construction
- Oil well cement, pumped into the annulus around the production pipe to seal against the surrounding strata
- Adhesive for ceramic tiles etc.

It so dominates the field of hydraulic binders (i.e. those capable of setting and hardening under water) that it is usually referred to simply as cement. For the purposes

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