

Water-Reducing Admixture

Overview

Water-reducing admixtures produce concrete mixtures with different levels of workability, including applications that require self-consolidating concrete (SCC).

Benefits

Water-reducing admixtures provide faster turnover of forms due to the accelerated early strength development, reduce finishing labor costs from optimized set times and minimize the need for slump adjustments at the jobsite. These admixtures also optimize concrete mixture costs, require less jobsite quality control support, feature consistent air entrainment, and result in fewer rejected loads.

Technical Specifications

Water-reducing admixtures meet ASTM C 494/C 494M compliance requirements for Type A, water-reducing, and Type F, high-range water-reducing, admixtures.

Uses

Water-reducing admixtures are often used in concrete with varying water reduction requirements (5% to 40%); concrete where control of workability and setting time is critical; concrete where high flowability, increased stability, high-early and ultimate strengths, and improved durability are needed; when producing self-consolidating concrete (SCC); in strength-on-demand concrete, such as with previous concrete.



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