

سلسلة أساسيات الخرسانة

الإضافات الاسمنتية

الإصافات الإستفلية الإستفليك المالكر وهميليكا) - الجزء الثاني

Silica Fume - Part II

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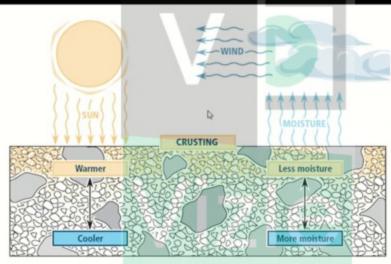


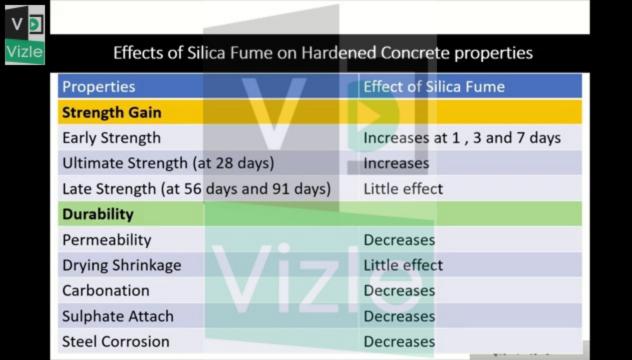
Effects of Silica Fume on Fresh Concrete properties

Properties	Effect of Silica Fume
Water Requirements	Increases
Workability	Decrees
Bleeding and Segregation	Decrees
Air Content	Decrees
Heat of Hydration	Varies
Setting Time	No to little effect
Finishability	Varies
Pumpability	Increases
Plastic Shrinkage Cracking	Increases
	كونكريت بالعربي



Effects of Silica Fume on Plastic Shrinkage cracking







Effects of Silica Fume on Sulphate Attack

Sulfate ions that penetrate the concrete react with CH to form gypsum

Tricalcium Aluminate + Gypsum → ettringite

when concentration of sulfate ions decrease the ettringite breaks down into monosulfates



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