

Product PORTFOLIO

Stronger every day

The Leonard P. Zakim Bunker Hill Bridge in Boston is the widest cable-stay bridge in the world. **Lafarge SF Cement was used in the deck and concrete abutments to enhance the compressive strength of the concrete and dramatically reduce permeability.**

A portland silica fume cement, Lafarge SF Cement is produced by intergrinding portland cement clinker, silica fume and gypsum. Silica fume, made up of spherical particles 100 times finer than cement particles, is a byproduct of the manufacture of silicon and ferro-silicon alloys. This blend of materials creates a dense and impermeable microstructure, making it an ideal choice for structures exposed to seawater, chloride ions and deicing salts.

The compressive strength of concrete made with Lafarge SF Cement is significantly higher than that of normal concrete. One-day compressive strength is similar to normal concrete's, while 28-day strength is significantly higher. Lafarge SF Cement can also reduce permeability and help improve resistance to sulfates, chemicals and alkali-silica reactivity.

Lafarge SF Cement is handled like portland cement and requires no special equipment. It can be batched with the same ease as ordinary cement.



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