

GUNITE: General Specifications

A-1 DEFINITION

Gunitite as herein specified is a trade name used to designate a mixture of Portland cement and sand thoroughly mixed dry, passed through a cement gun and conveyed by air through a flexible tube, hydrated at a nozzle at the end of such flexible tube and deposited by air pressure in its place of final repose.

A-2 PROPORTIONS

Unless otherwise specified, all Gunitite shall be mixed in the proportions of 1 part cement to 4½ parts of sand based on dry loose volume. Otherwise stated, 6½ sacks of cement per cubic yard at minimum of 3,000 P.S.I shall be used.

A-3 MATERIALS

CEMENT

Only Portland cements of American manufacture complying with the current issue of "Standard Specifications for Portland Cement," A.S.T.M. C-150-67 shall be used. Type I Portland cement shall be used unless specified in the detailed specifications.

SAND

Fine aggregates shall consist of washed sand and shall be hard, dense, durable, clean, sharp and graded evenly from fine to coarse in accordance with the "Standard Specifications for Concrete Aggregates," A.S.T.M. Designation: C33-67. It shall be free from organic matter and shall not contain more than 5% by weight of deleterious substances.

WATER

Water used for hydration at the nozzle shall be fit for drinking and shall be maintained at a uniform pressure which shall be at least 15 pounds per square inch above air pressure at the nozzle.