



The
Concrete
Supplement
Company

CONCRETE SUPPLEMENT

An Integral Admixture for concrete, mortar, stucco and grout.

DESCRIPTION

Concrete Supplement is an integral additive which reacts with portland cement to produce complete hydration. Mix designs which yield increased hydration will obtain the following results:

FEATURES

- High-Early Compressive Strengths
- Faster Set Times & Finishing Times
- Integral Waterproofing
- Shrinkage Reduction
- Harder & Denser Surfaces
- Workability & Controlled Acceleration
- Anti-Freeze Protection
- All Weather Protection

BENEFITS

- High-Performance & Cost Effective
- Reduces Vapor Transmission
- Durable & Non-Dusting Surfaces
- Increases Strength up to 30%
- Increases Abrasion Resistance
- Reduces Cracking

CONCRETE MIX DESIGN

For **Waterproof Concrete** and **Hard, Dust-Free Concrete Floors**, add 1 1/2 gallons of Concrete Supplement to each cubic yard of concrete which shall contain not less than 517 pounds of portland cement and no more than 39 gallons of water. Limit slump to four inches. Finish surfaces promptly with a hard steel troweling. Do not dust surfaces with cement or other driers. Do not dispense additive onto dry cement. Manufacturer guidelines must be followed for usage during higher temperatures.

GENERAL INSTRUCTIONS

Mix 1 part Concrete Supplement and 10 parts Water- then use as a gauging solution for mortar, stucco, and grout. Stronger dilutions may be used during colder temperatures or for faster set times.

PERFORMANCE DATA

ASTM C494 for Type C Admixtures

TECHNICAL SERVICES

For inspections, recommendations, or supervision in the use of CONCRETE SUPPLEMENT, contact The Concrete Supplement Company. Contractors shall notify The Concrete Supplement Company not less than 3 working days before integral waterproofing supervision. The labor of any required supervision shall be at the Contractor's expense.

SERVICE GUARANTEE

When concrete is placed under the supervision of our field representative, the manufacturer will issue a 5 year maintenance guarantee for the jobs or portions of jobs supervised in this manner.

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INTERNAL CURING:

Cured concrete is achieved internally through the use of CONCRETE SUPPLEMENT. In extremely hot weather, a useful precaution would be to water down the surface of the floor shortly after finishing. Keeping it wet for one day will prevent the chance of rapid dehydration of the concrete.

MORTAR:

A solution of 1 part of CONCRETE SUPPLEMENT and 10 parts of water gauging a mortar mix with or without lime, will give a denser, stronger mortar; and permit the laying of more courses in less time due to the high early strength reached.

BONDING:

Mix 1 part of CONCRETE SUPPLEMENT with 4 parts of water. Stir into this solution Portland Cement until a thick, paint-like consistency is reached. Apply this mixture to the roughened surface of the existing masonry just before applying the new concrete or mortar.

PLUGGING LEAKS:

Mixing fresh Portland Cement with undiluted CONCRETE SUPPLEMENT will cause an almost instantaneous set. This "hot plug" while still putty-like, may be placed in an opening through which water is running in order to stop the leak.

COLD WEATHER PROTECTION:

In usual mixes of concrete, 1 1/2 gallons of CONCRETE SUPPLEMENT per cubic yard will protect down to 20° F. At the ratio of 1 part CONCRETE SUPPLEMENT to 10 parts of water, the gauging liquid protects masonry down to 12° F.

JOINT DETAILS:

A complete waterproof system requires particular attention to joint details. Refer to technical notes and details by a Concrete Supplement representative. Floors should be designed with proper control & construction joints.

PLACING CONCRETE:

All concrete shall be properly vibrated or consolidated and wood spreaders must be removed as the concrete rises in the forms. Whenever possible, concrete shall be placed continuously until the placement is completed. Construction joints shall be keyed with a 2" by 4" key. When placing is about to be resumed, the joint shall be thoroughly cleaned & treated with a slush coat composed of 1 part CONCRETE SUPPLEMENT, 3 parts water and sufficient Type 1 Portland Cement to form a thick, creamy mixture. Concrete shall be placed before the slush coat dries.

WALL FINISHING:

After the forms are removed, all ties shall be cut back on both faces to a depth of approx. 1 1/2". Any cracks or honeycombed concrete shall be cut back to sound concrete. These areas shall be grouted with a CONCRETE SUPPLEMENT Slush Coat, then filled with mortar consisting of 1 part Type 1 Portland Cement and 2 parts sand, mixed with a solution of 1 part CONCRETE SUPPLEMENT to 2 parts water.

PRECAUTIONS WITH PUMPING:

No concrete shall be placed on wet or soggy ground without first laying and compacting a bed of broken stone or gravel of adequate thickness to prevent the mud from mixing with the concrete. A pump of sufficient capacity to keep water below the poured concrete shall be operated continuously during the placement and at least 24 hours thereafter. The excavated area must be prepared so that the water will easily drain to the pump without washing cement out of the newly placed concrete.

PRECAUTIONS WITH WATER PRESSURE:

In dealing with any structure subject to hydrostatic pressure, careful consideration must be given to the design of the members. Thickness and reinforcing must be capable of withstanding maximum potential heads. Possible flotation or any of the above factors should be subject to the design of a structural engineer.

PACKAGING

CONCRETE SUPPLEMENT is available in 1 gallon, 5 gallon, and 55 gallon containers.