

POZZOLITH® 440-N

High-range water-reducing admixture

DESCRIPTION:

POZZOLITH® 440-N high range, water-reducing admixture is formulated to produce flowable concrete with the workability needed to facilitate placement. Flowable concrete with a low water/cement ratio is readily attainable through the use of this admixture. It meets ASTM C 494 requirements for Type A water-reducing, Type F water-reducing, high range, and Type G water-reducing, high range and retarding admixtures, specifically:

- Increased strength—compressive and flexural
- Relative durability to damage from freezing and thawing—well above industry standards
- Reduced water content required for a given workability

ADVANTAGES:

POZZOLITH 440-N admixture aids in the production of concrete with these special qualities:

- Flowable and easily placeable
- Extended slump retention
- Improved engineering properties
- Low permeability, high durability
- Early reuse of forms for increased production
- Earlier structural use of concrete

WHERE TO USE:

POZZOLITH 440-N admixture is recommended for use in concrete where controlled setting characteristics are desired.

As a result of the preceding advantages, this admixture will improve performance in prestressed, precast and flowing concrete applications.

POZZOLITH 440-N admixture can be used with portland cements approved under ASTM, AASHTO and CRD specifications. The use of POZZOLITH 440-N and a Master Builders air-entraining admixture is recommended whenever concrete is required to withstand freeze/thaw cycles.

POZZOLITH 440-N is effective as a singular admixture or as a component in a Master Builders Admixture System. When used in conjunction with another admixture, each admixture must be dispensed separately into the mix.

POZZOLITH 440-N admixture will not initiate or promote corrosion of reinforcing steel in concrete. This admixture does not contain intentionally added calcium chloride or chloride-based ingredients. The admixture, due to chlorides originating from all the ingredients used in its manufacture, contributes less than 0.00011% (1.1 ppm) chloride ions by weight of the cement when used at the rate of 1 fl oz per 100 lbs (65 ml per 100 kg) of cement.

DIRECTIONS FOR USE:

Because slump retention is increased using POZZOLITH 440-N admixture, it may be batched at the ready-mix plant as opposed to jobsite addition often required when using other high-range water-reducers.

NOTE: For directions on the proper use of POZZOLITH 440-N admixture in specific applications, contact your local Master Builders representative.

QUANTITY TO USE:

POZZOLITH 440-N admixture is recommended for use at a rate of 10 to 25 fl ozs per 100 lbs (650 to 1,625 ml per 100 kg) of cement, depending upon the application and the amount of strength acceleration needed or slump increase desired. Because of variations in job conditions and concrete materials, dosage rates other than the recommended amounts may be required. In such cases, contact your local Master Builders representative.

RATE OF HARDENING:

Setting time of concrete is influenced by the chemical and physical composition of the basic ingredients of the concrete, temperature of the concrete and climatic conditions. Trial mixes should be made with job materials to determine the dosage required for a specified setting time and a given strength requirement.

PACKAGING:

POZZOLITH 440-N admixture is supplied in 55 U.S. gallon (208 liter) drums and by bulk delivery.

TEMPERATURE PRECAUTION:

If POZZOLITH 440-N admixture has frozen, thaw at 40 °F (4 °C) or above and completely reconstitute by mild mechanical agitation. **Do not use pressurized air for agitation.**

For additional information on POZZOLITH 440-N admixture or on its use in developing a concrete mixture with special performance characteristics, contact your local Master Builders representative.

**Master Builders, Inc.
United States**

23700 Chagrin Boulevard
Cleveland, Ohio 44122-5554
(800) MBT-9990
Fax (216) 831-6910

Canada

3637 Weston Road
Toronto, Ontario M9L 1W1
(800) 387-5862
Fax (416) 741-7925

Mexico

Blvd. M. Avila Camacho 80, 3er Piso
53390 Naucalpan, México
011-525-557-5544
Fax 011-525-395-7903