

POZZOLITH® 322-N

Concrete admixture

DESCRIPTION:

POZZOLITH® 322-N ready-to-use, liquid admixture is for making more uniform and predictable quality concrete. It meets ASTM C 494 requirements for Type A water-reducing 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
- Normal-setting characteristics

ADVANTAGES:

Concrete with POZZOLITH 322-N admixture sets at a rate comparable to plain concrete while providing the following special qualities:

- Improved workability
- Reduced segregation
- Superior finishing characteristics for flatwork and cast surfaces
- Effective as a singular admixture or as a component in a Master Builders Admixture System

WHERE TO USE:

POZZOLITH 322-N admixture is recommended for use in concrete where improved normal-setting characteristics are desired.

As a result of the preceding advantages, this admixture improves pumped concrete, shotcrete (wet mix), and conventionally placed concretes. It improves plain, reinforced, precast, prestressed, lightweight or standard weight concrete.

POZZOLITH 322-N admixture can be used with portland cements approved under AASHTO, ASTM and CRD specifications. The use of POZZOLITH 322-N and a Master Builders air-entraining admixture is recommended whenever concrete is required to withstand freeze/thaw cycles. When used in conjunction with another admixture, each admixture must be dispensed separately into the mix.

POZZOLITH 322-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 0.00024% (2.4 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.

PERFORMANCE DATA:

Mix Design	Setting Time	
	Initial Set Hours:Minutes	Difference Hours:Minutes
Plain Concrete	5:20	-
POZZOLITH 322-N/Concrete		
3 fl oz/cwt (195 mL/100 kg)	5:15	-0:05
5 fl oz/cwt (325 mL/100 kg)	5:40	+0:20
7 fl oz/cwt (460 mL/100 kg)	6:20	+1:00

Mix Design	Compressive Strength					
	7 Days			28 Days		
	PSI	MPA	%	PSI	MPA	%
Plain Concrete	2150	14.8	100	3070	21.2	100
POZZOLITH 322-N/Concrete						
3 fl oz/cwt (196 mL/100 kg)	2820	19.4	131	3970	27.4	129
5 fl oz/cwt (325 mL/100 kg)	3160	21.8	147	4100	28.3	134
7 fl oz/cwt (456 mL/100 kg)	3190	22.0	148	4390	30.3	143

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

¹ The data shown is based on controlled laboratory tests using the following mix data: 400 lbs of Type I cement per cubic yard (237 kg/m³); slump 5 inches (127 mm); non-air-entrained concrete; concrete temperature 76 °F (24 °C); ambient temperature 74 °F (23 °C). Reasonable variations from the results shown here may be experienced as a result of the differences in materials and jobsite conditions.

QUANTITY TO USE:

POZZOLITH 322-N admixture is recommended for use at a rate of 3 to 7 fl ozs per 100 lbs (195 to 460 mL per 100 kg) of cement for most concrete mixes using average concrete ingredients. 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.

PACKAGING:

POZZOLITH 322-N admixture is supplied in 55 U.S. gallon (208 liter) drums and by bulk delivery.

TEMPERATURE PRECAUTION:

If POZZOLITH 322-N admixture has frozen, thaw at temperatures above 35 °F (2 °C) and completely reconstitute by mild mechanical agitation. **Do not use pressurized air for agitation.**

For additional information on POZZOLITH 322-N admixture or on its use in developing a concrete mix with special performance characteristics, contact your local Master Builders representative.

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