

Description

Pozzolith NC 534 patented, ready-to-use, liquid admixture is formulated to accelerate time of setting and to increase early concrete strengths. Pozzolith NC 534 admixture does not contain calcium chloride and is formulated to comply with ASTM C 494/C 494M Type C, accelerating, admixture requirements.

Applications

Recommended for use in:

- Reinforced, precast, pumped, flowable, lightweight or normal weight concrete and shotcrete (wet mix)
- Concrete placed on galvanized steel floor and roof systems which are left in place
- Prestressed concrete
- Fast-track concrete construction
- Concrete subject to chloride ion constraints
- 4x4™ Concrete
- Rheodynamic® Self-Consolidating Concrete (SCC)
- Pervious Concrete

POZZOLITH® NC 534

Accelerating Admixture

Features

- Accelerated setting time across a wide range of temperatures
- Increased early compressive and flexural strength

Benefits

- Earlier finishing of slabs — reduced labor costs
- Reduced in-place concrete costs
- Reduced or eliminated heating and protection time in cold weather
- Earlier stripping and reuse of forms
- Superior finishing characteristics for flatwork and cast surfaces

Performance Characteristics

Mix Data: 453 lb/yd³ (269 kg/m³) of Type I cement; 3-4 in. ; (75-100 mm) slump; concrete temperature 74 °F (23 °C); ambient temperature 50 and 75 °F (10 and 24 °C); Non-air-entrained concrete.

Setting time

Mix @ 50 °F (10 °C)	Initial Set (h:min)	Difference (h:min)
Plain	13:44	REF
Pozzolith NC 534 admixture @		
20 fl oz/cwt (1300 mL/100 kg)	7:11	- 6:33
40 fl oz/cwt (2600 mL/100 kg)	6:05	- 7:39
Mix @ 75 °F (24 °C)		
Plain	8:18	REF
Pozzolith NC 534 admixture @		
20 fl oz/cwt (1300 mL/100 kg)	4:59	- 3:19
40 fl oz/cwt (2600 mL/100 kg)	4:18	- 4:00

Guidelines for Use

Dosage: The recommended dosage range for Pozzolith NC 534 admixture is 10-45 fl oz/cwt (0.65 – 2.9 L/100 kg) of cementitious materials for most concrete mixtures 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 BASF Construction Chemicals representative.

The maximum dosage of Pozzolith NC 534 in potable water applications that require the use of NSF Certified products is 30 fl oz/cwt (2.0 L/kg) of cementitious materials. For specialty concrete mixtures such as 4x4™ Concrete, dosages up to 100 fl oz/cwt (6.5 L/100 kg) may be required.

Product Data: POZZOLITH® NC 534

Product Notes

Corrosivity – Non-Chloride, Non-Corrosive: Pozzolith NC 534 admixture will neither initiate nor promote corrosion of reinforcing steel in concrete.

Compatibility: Pozzolith NC 534 admixture may be used in combination with any BASF Construction Chemicals admixture. When used in conjunction with other admixtures, each admixture must be dispensed separately into the mix.

Storage and Handling

Storage Temperature: Store at 5 °F (-15 °C) or above. If Pozzolith NC 534 admixture freezes, thaw at 35 °F (2 °C) or above and completely reconstitute by mild mechanical agitation. **Do not use pressurized air for agitation.**

Shelf Life: Pozzolith NC 534 admixture has a minimum shelf life of 18 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your BASF Construction Chemicals representative regarding suitability for use and dosage recommendations if the shelf life of Pozzolith NC 534 admixture has been exceeded.

Packaging

This product is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes and by bulk delivery.

Related Documents

Material Safety Data Sheets: Pozzolith NC 534 admixture.

Additional Information

For additional information on Pozzolith NC 534 admixture or its use in developing a concrete mixture with special performance characteristics, contact your BASF Construction Chemicals representative.

The Admixture Systems business of BASF Construction Chemicals is a leading provider of innovative admixtures for specialty concrete used in the ready mix, precast, manufactured concrete products, underground construction and paving markets throughout the North American region. The Company's respected Master Builders brand products are used to improve the placing, pumping, finishing, appearance and performance characteristics of concrete.

BASF Construction Chemicals
Admixture Systems

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