

Description

RheoTEC Z-60 admixture is a revolutionary new technology based on significant advances in admixture chemistry.

RheoTEC Z-60 admixture is used as part of an admixture system to provide customized admixture solutions for a wide range of concrete applications. RheoTEC Z-60 admixture is a workability-retaining admixture that provides flexible degrees of slump retention without retardation.

RheoTEC Z-60 admixture provides the concrete producer with the ability to immediately create the optimal admixture system for changing and fluctuating regional raw materials, environmental conditions and project requirements. RheoTEC Z-60 admixture gives the concrete producer the ability to consistently produce and deliver quality concrete mixtures.

RheoTEC Z-60 admixture meets the requirements of ASTM C 494/C 494M Type S, Specific Performance, admixtures.

Applications

Recommended for use in:

- Concrete with varying slump requirements
- Concrete mixtures utilizing supplementary cementitious materials
- Concrete where high flowability, increased stability and durability are needed
- Production of self-consolidating concrete (SCC) mixtures
- Ready-mixed and precast concrete

RheoTEC™ Z-60

Workability-Retaining Admixture

Features

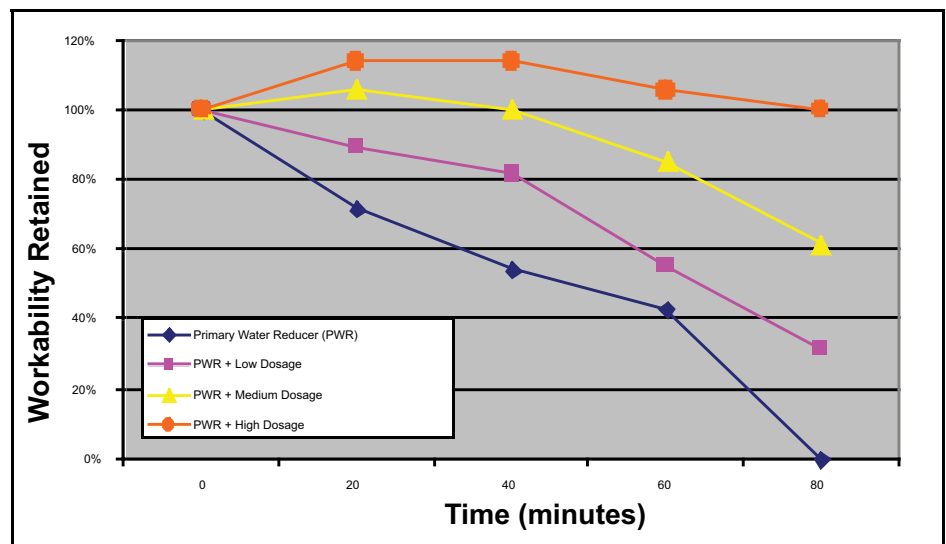
- Workability retention without retardation
- Flexible levels of workability retention by adjusting dosage
- Improved early- and late-age compressive strengths

Benefits

- Promotes greater consistency of concrete workability at the jobsite
- Promotes consistency in compressive strengths via minimized jobsite addition of water
- Minimizes re-dosing of high-range water-reducing admixture at the job site
- Consistent air-entrainment
- Fewer rejected loads and better customer satisfaction due to consistent quality of concrete
- Faster truck turn-around time
- Expanded concrete delivery range

Performance Characteristics

The data in the following graph represents the dramatic performance achievable through the use of RheoTEC Z-60 admixture. Represented in the graph are four mixtures. The first mixture utilized a primary water reducer without RheoTEC Z-60 admixture. The three remaining mixtures utilized the same primary water reducer with a low, medium and high dosage of the RheoTEC Z-60 admixture. These mixtures had concrete temperatures of 90 °F (32 °C) and contained 600 lb/yc³ (356 kg/m³) of cement with a w/c of 0.40.



Product Data: RheoTEC Z-60

Guidelines for Use

Dosage: RheoTEC Z-60 admixture has a recommended dosage range of 3-12 fl oz/cwt (195-780 mL/100 kg) of cementitious materials.

Mixing: RheoTEC Z-60 admixture can be added with the initial batch water or as a delayed addition.

Product Notes

Corrosivity – Non-Chloride, Non-Corrosive: RheoTEC Z-60 admixture will neither initiate nor promote corrosion of reinforcing steel embedded in concrete, prestressing steel or of galvanized steel floor and roof systems. Neither calcium chloride nor other chloride-based ingredients are used in the manufacture of RheoTEC Z-60.

Compatibility: RheoTEC Z-60 admixture is compatible with most admixtures used in the production of quality concrete, including normal, mid-range and high-range water-reducing admixtures, air-entrainers, accelerators, retarders, extended set control admixtures, corrosion inhibitors, and shrinkage reducers.

Do not use RheoTEC Z-60 admixture with admixtures containing beta-naphthalene sulfonate. Erratic behaviors in slump, workability retention and pumpability may be experienced.

RheoTEC Z-60 admixture has only been tested with admixtures manufactured by BASF Construction Chemicals. As a result, use of RheoTEC Z-60 admixture with non-BASF admixtures may produce unpredictable results. BASF denies any warranty expressed or implied with respect to any application using a non-BASF admixture in connection with the use of RheoTEC Z-60 admixture.

Storage and Handling

Storage Temperature: RheoTEC Z-60 admixture must be stored at temperatures above 40 °F (5 °C). If RheoTEC Z-60 admixture freezes, thaw and reconstitute by mechanical agitation. **Do not use pressurized air for agitation.**

Shelf Life: RheoTEC Z-60 admixture has a minimum shelf life of 6 months. Depending on storage conditions, the shelf life may be greater than stated.

Packaging

RheoTEC Z-60 admixture is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes and by bulk delivery.

Related Documents

Material Safety Data Sheets: RheoTEC Z-60 admixture.

Additional Information

For additional information on RheoTEC Z-60 admixture or on its use in developing concrete mixtures with special performance characteristics, contact your local sales representative.

BASF Construction Chemicals is a leading provider of innovative chemical admixtures and silica fume for specialty concrete used in the ready-mixed, precast, manufactured concrete products, underground construction and paving markets in 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.

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