

## Description

GLENIUM® 7101 high-range water-reducing admixture is based on the next generation of polycarboxylate technology found in all of the Glenium 7000 series products. This technology combines state-of-the-art molecular engineering with a precise understanding of regional cements to provide specific and exceptional value to all phases of the concrete construction process.

GLENIUM 7101 admixture is particularly effective in improving the day to day consistency of concrete mixtures. This is accomplished by providing unparalleled workability retention which has a dramatic impact on both fresh and hardened concrete properties. Workability retention helps to maintain more consistent air contents from batching to placement and minimizes the need for slump adjustment at the jobsite. GLENIUM 7101 admixture meets ASTM C 494/C 494M compliance requirements for Type A, water-reducing, and Type F, high-range water-reducing, admixtures.

## Applications

Recommended for use in:

- Concrete with varying water reduction requirements (5-40%)
- Applications requiring workability retention without retardation
- Concrete where high flowability, increased stability and durability are needed
- Production of Rheodynamic® Self-Consolidating Concrete (SCC) mixtures
- 4x4™ Concrete System for fast-track construction
- Pervious Concrete mixtures

# GLENIUM® 7101

## High-Range Water-Reducing Admixture

### Features

- Superior workability retention
- Consistent air entrainment
- Consistent ultimate strengths
- Dosage flexibility

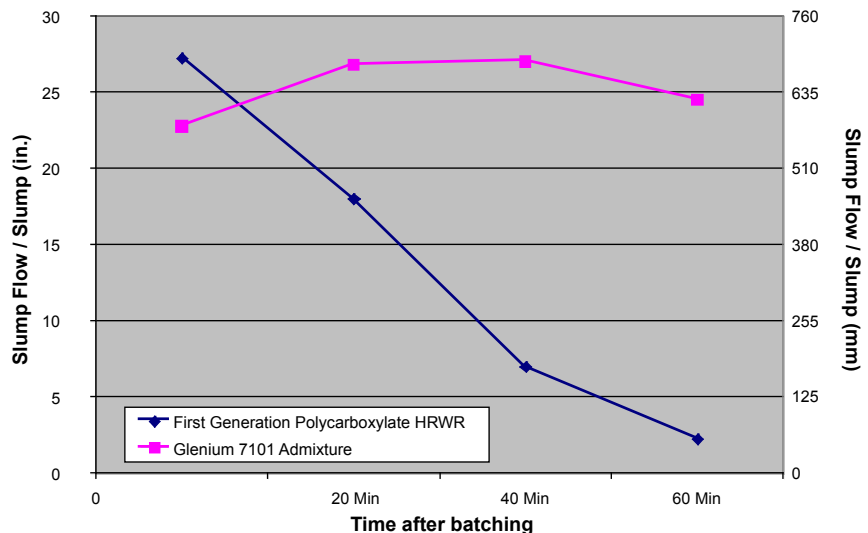
### Benefits

- Enables greater consistency in the production of self-consolidating concrete
- Minimizes the need for slump adjustment at the jobsite
- Minimizes mixture over-design requirements
- Significantly reduces re-dosing of HRWR at the jobsite
- Less jobsite QC support required
- Fewer rejected loads
- Less bug holes, pour lines and cold joints caused by premature stiffening
- Fewer surface repairs
- Optimizes concrete mixture costs
- Faster truck turn-around time

### Performance Characteristics

**Mixture Data:** Both mixtures contained 680 lb/yd<sup>3</sup> (403 kg/m<sup>3</sup>) total cementitious with 15% Class C fly ash, w/cm = 0.42, Concrete temperature: 85 °F (29° C)

**Workability Retention:** Concrete produced with GLENIUM 7101 admixture maintains workability significantly longer than concrete mixtures containing naphthalene or first generation polycarboxylate high-range water-reducing admixtures.



# Product Data: GLENIUM® 7101

## Guidelines for Use

**Dosage:** GLENIUM 7101 admixture has a recommended dosage range of 3-12 fl oz/cwt (195-780 mL/100 kg) of cementitious materials. Because of variations in concrete materials, jobsite conditions and/or applications, dosages outside of the recommended range may be required. In such cases, contact your local BASF Construction Chemicals representative.

**Mixing:** GLENIUM 7101 admixture can be added with the initial batch water or as a delayed addition. However, optimum water reduction is generally obtained with a delayed addition.

## Product Notes

**Corrosivity – Non-Chloride, Non-Corrosive:** GLENIUM 7101 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 GLENIUM 7101 admixture.

**Compatibility:** GLENIUM 7101 admixture is compatible with most admixtures used in the production of quality concrete, including normal, mid-range and high-range water-reducing admixtures, accelerators, retarders, extended set control admixtures, air-entraining admixtures, corrosion inhibitors, and shrinkage reducers.

**Do not use GLENIUM 7101 admixture with admixtures containing beta-naphthalene sulfonate. Erratic behaviors in slump, workability retention and pumpability may be experienced.**

## Storage and Handling

**Storage Temperature:** GLENIUM 7101 admixture must be stored at temperatures above 40 °F (5 °C). If GLENIUM 7101 admixtures freezes, thaw and reconstitute by mechanical agitation.

**Shelf Life:** GLENIUM 7101 admixture has a minimum shelf life of 6 months. Depending on storage conditions, the shelf life may be greater than stated. To ensure the longest shelf life potential, recirculation is recommended. Please contact your BASF Construction Chemicals representative regarding suitability for use and dosage recommendations if the shelf life of GLENIUM 7101 admixture has been exceeded.

## Packaging

GLENIUM 7101 admixture is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes and by bulk delivery.

## Related Documents

Material Safety Data Sheets: GLENIUM 7101 admixture.

## Additional Information

For additional information on GLENIUM 7101 admixture and its use in developing concrete mixtures with special performance characteristics, contact your local sales 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, LLC**  
Admixture Systems

[www.masterbuilders.com](http://www.masterbuilders.com)

United States 23700 Chagrin Boulevard, Cleveland, Ohio 44122-5544 • Tel: 800 628-9990 • Fax: 216 839-8821

Canada 1800 Clark Boulevard, Brampton, Ontario L6T 4M7 • Tel: 800 387-5862 • Fax: 905 792-0651

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