

### Description

DELVOcrete 29 admixture is a unique, non-chloride chemical admixture that controls the dynamics of cement hydration by suspending the hydration process for hours or even days without affecting the quality of hardened shotcrete.

DELVOcrete 29 admixture is a liquid admixture. When dispensed into wet or dry mixes at the batching plant, it fully stabilizes the hydration process by forming a protective barrier around the cement particles.

### Applications

Recommended for use in:

- Tunneling: Temporary support and final linings for road, railway and metro tunnels, mines, hydropower projects, sewers
- Temporary and final slope stabilization
- Repairs to concrete structures
- Grouting systems
- Injection applications

# DELVOCRETE™ 29

## Hydration Controlling Admixture

### Features

- Fully flexible delivery options for batched shotcrete
- Complete use of wet and dry mixes
- Higher early strengths
- Always working with fresh concrete, up to 3 days

### Benefits

- Reduced waste disposal
- No cleaning of pumps or pipes during work interruptions
- Flexibility in allocating time, materials, manpower and equipment
- Expensive bagged material can be replaced by economical jobsite mixes
- Considerable savings of overall construction costs
- Considerable reduction of rebound and dust

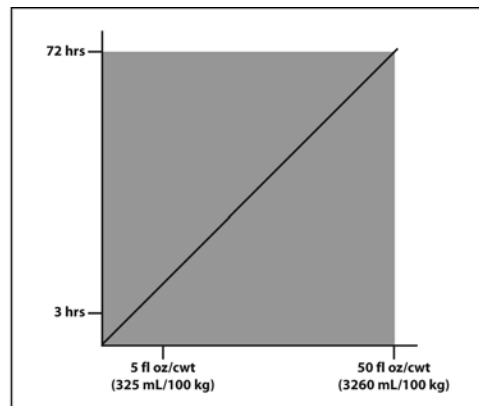
### Guidelines for Use

**Wet-mix shotcrete:** Premix aggregates with cement and one-half of the mixing water. Under continuous mixing, add DELVOcrete 29 admixture and a high-performance superplasticizer, premixed with the second half of the mixing water or after all water is added. Normal mixing time is sufficient. In the event of unexpected delays, a later addition of 0.6-1.0% by mass of DELVOcrete 29 admixture is possible to prolong storage time for a few hours.

**Dry mix shotcrete:** It may be stabilized with DELVOcrete 29 admixture. Please consult a BASF Construction Chemicals representative for assistance.

**Dosage:** The recommended dosage of DELVOcrete 29 admixture for a stabilization of 3-72 hours is 5-50 fl oz/cwt (325-3260 mL/100 kg) by weight of the binder (cement + microsilica). Normal cement content should be 674-775 lb/yd<sup>3</sup> (400-460 kg/m<sup>3</sup>). Specific dosages depend on cement type, mixture proportions, ambient temperature and required stabilization time.

### Recommended Minimum Dosages



In order to prevent water evaporation of stabilized mixtures, both wet and dry mixtures must be protected against direct sunlight and frost and covered with plastic sheeting.

# Product Data: DELVOCRETE® 29

## Storage and Handling

**Storage Temperature:** DELVOcrete 29 admixture should be stored at temperatures above 27 °F (-3 °C). If DELVOcrete 29 admixture freezes, thaw at 34 °F (1 °C) or above and completely reconstitute with mild mechanical agitation. **Do not use pressurized air for agitation.**

**Safety:** Safety glasses or goggles with side shields and rubber gloves must be worn when handling DELVOcrete 29 admixture. For further details, consult the Material Safety Data Sheet.

**Self Life:** DELVOcrete 29 admixture has a minimum shelf life of 6 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 Delvocrete 29 admixture has been exceeded.

## Packaging

DELVOcrete 29 admixture is supplied in 55 gal (208 L) drums.

## Related Documents

Material Safety Data Sheets: DELVOcrete 29 admixture.

## Additional Information

For additional information on DELVOcrete 29 admixture, contact your BASF Construction Chemicals representative.

*The Admixture Systems business of BASF Construction Chemicals is a leading provider of innovative additives for specialty concrete used in the ready mix, precast, manufactured concrete products, underground construction and paving markets throughout the NAFTA 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

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