



# CONCURE SYSTEMS ADMIXTURE DATA SHEET

Phoenix, Arizona 85048  
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## PRODUCT DESCRIPTION:

### BASIC USE:

The primary use of Concure Systems Admixture is for waterproofing new on-grade or below-grade concrete slabs. This type of admixture takes the guesswork out of where to use vapor retarder.

### ADVANTAGES:

Using Concure Systems Admixture assures architects and flooring manufacturers that flooring materials will not de-bond due to moisture migration or capillary action inside the slab. When used alone, Concure Systems Admixture acts as a plasticizer and a water reducer. It also completely eliminates the use of other types of admixture.

### OTHER IMPORTANT BENEFITS INCLUDE:

- Improves freeze/thaw resistance
- Keeps concrete from dusting
- Inhibits rusting of metal reinforcing bar
- Offers faster finishing time
- Reduces shrinkage cracks
- Maintains good flexibility at low slump
- Prevents capillary action
- Stops water, salt and alkali intrusion
- Resistant to chemical and acid-attack
- Stops radon gas
- Can be used in strained and colored concrete
- Stops ASR (Alkali-Silica-Reactivity)

### COMPOSITION & MATERIAL:

Function- Concure Systems Admixture reacts with water and alkali filling the capillary system with Calcium Silicate Hydrate (CSH). The route for moisture migration to occur is eliminated.

Plasticizing Action – Once Concure Systems Admixture is added to the mix design it reacts with the water to allow the concrete to be flexible, even at low slump.

### TECHNICAL DATA:

#### ENVIRONMENTAL CONSIDERATIONS:

Concure Systems Admixture is environmentally safe and contains no volatile organic compounds (VOC'S).

#### PHYSICAL/CHEMICAL PROPERTIES:

Test reports are available to design professionals upon request.

## INSTALLATION:

### PREPARATORY WORK:

Handle and store product according to Concure Systems Recommendations. Concure Systems Concrete Admixture should be used in all interior floor slabs unless noted otherwise. Maximum slump with water should not exceed 4" (101.60 mm). Follow manufacturer's instructions for dispensing. Concure Systems Admixture is added directly to the concrete mix design.

### APPLICATION – FLOORING:

Cracks, expansion joints and saw cuts should be filled with cementitious patch using Concure Systems Crack Fill Binder. (SEE CRACK FILL BINDER DATA SHEET)

### DISPENSING:

Concure Systems Admixture is added at the batch plant or at the job site at a rate of 14oz (397 g) per 100 pounds of cement. Additional dosage may be required for an increase in high early strength benefits.

### TRUCK OR PLANT MIXING:

The accuracy of measurement of any admixture should be within plus or minus 3%. Two or more admixtures may be used in the same concrete batch, provided such admixtures are added separately and that the combination has no deleterious effect on the concrete. Let drum rotate for 7 minutes, RAPID MIXING, before dispensing.

### ON-SITE MIXING:

Add the Concure Systems Admixture to the concrete truck and let drum rotate for 7 minutes, RAPID MIXING, before dispensing.

### CURING:

Concure Systems 2100 Cure & Seal is recommended to be used on the entire slab as it does NOT have to be mechanically removed and will enhance bonding properties.

**AVOID USING PARAFIN OR PETROLIUM BASED CURING AGENTS AS THEY NEED TO BE MECHANICALLY REMOVED BEFORE FLOORING INSTALLATION.**

Concure Systems recommends following established ACI guidelines for curing. Complete installation recommendations are available from the manufacturer.

## PRECAUTIONS:

A representative of Concure Systems should be present at the jobsite during mixing and placement of the first batch of treated concrete. Contractor must not proceed without this representative being present for certification. Use non-chlorinated additives such as accelerators, plasticizers and water reducers with Concure Systems Admixture. Air entrainment is not needed. Retarders may be used when ambient temperatures exceed 75° F (24° C).

Concure Systems Admixture is used in lieu of a portion of the mix water, not in addition to the mix water. The water-to-cement ratio is critical. It is imperative to comply with the designed water-to-cement ratio. Use of plasticizers and/or water reducers is recommended to achieve slumps greater than 4".

## STORAGE TEMPERATURE:

Store above 45 degrees, do not allow to freeze. Separation may occur under 45 degrees and thorough agitation will be required.

## BUILDING CODES:

Current data on building code requirements and product compliance may be obtained from Concure Systems technical support specialists. Installation and use of this product must comply with the requirements of applicable code jurisdiction.

## WARRANTY:

This admixture is formulated for the flooring industry and meets or exceeds all guidelines pertaining to moisture emission as established by the flooring industry. This admixture carries a TEN (10) year warranty against moisture related failure, including all finish floor materials and labor. Contact manufacturer for more information on warranty condition, duration and remedies.

## MAINTENANCE:

No maintenance required.

## TECHNICAL SERVICES:

Trained service personnel offer design assistance and technical support. For technical assistance call (480) 820-7171. For local representative please visit our website.

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