

## PRODUCT DATA

**3** 03 30 00 **Cast-In-Place  
Concrete****TRIMIX<sup>®</sup>-NCA****Nonchloride multi-purpose admixture  
for concrete, mortar, and stucco****Description**

Trimix<sup>®</sup>-NCA is a nonchloride-based liquid admixture for accelerating the initial and final set of concrete and Portland-cement mortar. Its chloride-free formulation will not corrode reinforcing steel. Set acceleration enables cold weather placement of concrete.

**Dosage Rate**

12 – 75 fl oz/100 lbs cement  
(0.36 – 2.2 L/45 kg cement)

**Packaging**

5 gal (18.9 L) pails  
55 gal (208 L) drums

**Color**

Light Amber

**Shelf Life**

1 year when properly stored

**Storage**

Store in unopened containers in a clean, dry area. Do not allow Trimix<sup>®</sup>-NCA to freeze in the container; do not store below 35° F (2° C).

**Features**

- Nonchloride based
- Set accelerator
- Increased workability, decreased bleed water and segregation

**Benefits**

- Will not corrode reinforcing steel
- Enables cold weather placement of concrete; improves early freeze/thaw resistance
- Shortens finishing time; saves labor costs

**Where to Use**

- Concrete
- Mortar
- Cement-based stucco mixes

**How to Apply****Application for Concrete**

1. For temperatures between 25 and 65° F (-4 and 18° C), normal dosage rates will be from 12 – 75 fluid ounces of Trimix<sup>®</sup>-NCA per 100 lbs of cement (0.36 – 2.2 L/45 kg of cement). Actual dosage rate will depend on the degree of acceleration desired. Cooler concrete mix temperatures will slow the rate of initial set and higher mix temperatures will accelerate the rate of set; determine dosage rates accordingly.
2. Add Trimix<sup>®</sup>-NCA directly to the gauging water. Do not dispense Trimix<sup>®</sup>-NCA directly into dry cement.
3. Mix immediately for at least 2 – 3 minutes and place concrete within 1 hour.
4. To maintain slump, water requirements of Trimix<sup>®</sup>-NCA modified concrete may be reduced by approximately 10%.

**APPLICATION FOR MASONRY MORTAR**

1. Dosage rates depend on the temperature during the time of placement and 48 hours following. Normal dosage rates will be from 12 – 75 ounces of Trimix<sup>®</sup>-NCA per 100 lbs of masonry cement (0.36 – 2.2 L/45 kg of masonry cement), depending on temperature, degree of acceleration, and water reduction desired.
2. Trimix<sup>®</sup>-NCA is added directly to the gauging water. Mix thoroughly for 2 – 3 minutes and place before material becomes excessively stiff.
3. When temperatures are expected to be at or below 25° F (-4° C) for 24 hours or longer, supplemental protection and artificial heat are recommended in addition to the use of Trimix<sup>®</sup>-NCA. See “Recommended Practices and Guides Specifications for Cold Weather Masonry Construction,” published by the International Masonry Industry All-Weather Council.

**Clean Up**

Clean all tools and equipment with water.

## Technical Data

### Composition

Trimix®-NCA is calcium-nitrate based.

### Compliances

- ASTM C 494, Type C
- Corps of Engineers
- CRD-C-87, Type C
- AASHTO M-194, Type C
- Trimix®-NCA can be substituted for all specifications calling for a noncorrosive chloride-free accelerator.

### Test Data

PROPERTY	RESULTS	TEST METHODS
<b>Set times, hrs</b> earlier than control		ASTM C 494*, Type C
Initial set	Passes	1 – 3.5
Final set	Passes	At least 1
<b>Compressive strength, psi (MPa),</b> min % of control		ASTM C 109
3 days	Passes	125 (0.9)
7 days	Passes	100 (0.7)
20 days	Passes	100 (0.7)
<b>Flexural strength, psi (MPa),</b> min % of control		ASTM C 348
3 days	Passes	110 (0.8)
7 days	Passes	100 (0.7)
28 days	Passes	90 (0.6)
<b>Length change</b>	Passes	Max: 0.010
<b>Relative durability factor</b>	Passes	Min: 80 Passes

\*Dosage rate: 75 fl oz/100 lbs cement (2.2 L/45 kg cement).

Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.

## For Best Performance

- At temperatures below 50° F (10° C), place concrete in accordance with ACI 306, "Recommended Practices and Guide Specifications for Cold Weather Masonry Construction."
- Different cements, admixtures, and mix designs will produce different results with Trimix®-NCA.
- For precise set times and dosage rates, tests with actual materials are required at the expected placement temperature.
- Protect concrete from freezing after placement.
- Make certain the most current versions of product data sheet and MSDS are being used; call Customer Service (1-800-433-9517) to verify the most current version.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

## Health and Safety

TRIMIX®-NCA

### Caution

Trimix®-NCA contains calcium nitrate.

### Risks

May cause skin, eye or respiratory irritation. Ingestion may cause irritation.

### Precautions

KEEP OUT OF THE REACH OF CHILDREN. Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Use only with adequate ventilation. DO NOT take internally. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area, use NIOSH/ MSHA approved respiratory protection in accordance with federal, state and local regulations. Empty container may contain hazardous residues. All label warnings must be observed until container is commercially cleaned or reconditioned.

## First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION. Refer to Material Safety Data Sheet (MSDS) for further information.

### Proposition 65

This product does not knowingly contain materials listed by the state of California as known to cause cancer and birth defects or other reproductive harm.

### VOC Content

0 lbs/gal or 0 g/L of coating

**For medical emergencies only,  
call ChemTrec (1-800-424-9300).**

## BASF Construction Chemicals, LLC – Building Systems

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**Technical Service** 800-243-6739



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