



Tyfo® CIS CCA

Concrete Corrosion Admixture

DESCRIPTION

Tyfo® CIS CCA is a water dispersion of a solid organic amine salt-based vapor phase migratory corrosion inhibitor. It is designed to be used as an admixture to reinforced concrete to inhibit rebar corrosion.

USE

Any concrete structure being poured where conditions conducive to rebar corrosion are expected in the future.

ADVANTAGES

Being in the form of a water insoluble solid vapor phase corrosion inhibitor (VCI), it provides a high level of long lasting cathodic and anodic modes of corrosion inhibition. There are presently no observed negative impacts on concrete quality.

LIMITATIONS

No known limitations. Some impact on performance may occur if concrete temperature approaches the 200° F (93° C) range

COVERAGE

Tyfo® CIS CCA as sold contains 20 wt. % solid VCI. At this concentration it is recommended that it be added to the concrete mix at the nominal rate of 1 quart/yd³ or 1 liter/M³. These addition rates should be used as whole number guides and can be increased or decreased to adjust for performance.

PACKAGING

5 gallon (19 L) pail and 55 gallon (208 L) drum.

SHELF LIFE

Two years in original, unopened and properly stored containers.

STORAGE CONDITIONS

Store at 40-95° F (4° C - 35° C). Protect from freezing.

HOW TO USE THE TYFO® CIS CCA

INSTALLATION

Tyfo® System to be installed by Fyfe Co. LLC trained and certified applicators. Installation shall be in strict compliance with the Fyfe Co. LLC Quality Control Manual.

SURFACE PREPARATION

Open container and mix to obtain a homogeneous dispersion of solids. Remove required quantity for concert mix size or add whole container. Place in concrete mix immediately after water addition. Adjust water cement ratio volume to account for 80% water in Tyfo® CIS CCA. If multiple layer pours are being made it is possible to consider using Tyfo® CIS CCA in the pour layer, which surrounds the rebar.

CLEANUP

In case of spills or leaks, wear suitable protective equipment. Contain spill and collect with absorbent material or process and transfer to a suitable container. Ventilate area. Avoid contact. Dispose of in accordance with current, applicable local, state and federal regulations.

DISPOSAL OF CONTAINER

Triple rinse inside of container, seal opening and dispose of properly.

CERTIFICATE OF COMPLIANCE

- Will be supplied upon request, complete with state and federal packaging laws with copy of labels used.
- Material safety data sheets will be supplied upon request.
- V.O.C.'s are negligible ASTM D-2369.

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	212° F (100° C)
Specific Gravity	0.96
Flash Point	N/A
pH	7.5 to 8.0
Solubility	Isopropyl alcohol
Appearance	White aqueous suspension

CAUTION!

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN THIS PRODUCT CAN BE MISTAKEN FOR MILK. Use with adequate ventilation. Use with adequate ventilation. Do not heat to drive off water dispersion vehicle. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel ill, seek medical advice. Wash clothing prior to re-use.

FIRST AID

Inhalation: If breathing is difficult due to inhalation of vapor or mist, move person to fresh air. If you feel ill, seek medical advice.

Eye Contact: In case of eye contact, flush immediately with plenty of water for 20 minutes and seek medical advice.

Skin Contact: Wash thoroughly with soap and water. If irritation persists, seek medical advice.

Ingestion: If swallowed, do not induce vomiting. Drink plenty of water. If unconscious, do not give anything. Seek medical attention immediately.

For additional information on personal protective equipment, first aid, and emergency procedures, refer to the product Material Safety Data Sheet (MSDS) on the job site or contact the company at the address or phone number given below.

SHIPPING LABELS CONTAIN

- State specification number with modifications, if applicable
- Component designation
- Type, if applicable
- Manufacturer's name
- Date of manufacture
- Batch name
- State lot number, if applicable
- Directions for use
- Warnings or precautions required by law

**KEEP CONTAINER TIGHTLY CLOSED.
NOT FOR INTERNAL CONSUMPTION.
CONSULT MATERIAL SAFETY DATA SHEET
(MSDS) FOR MORE INFORMATION.
KEEP OUT OF REACH OF CHILDREN.
FOR INDUSTRIAL USE ONLY.**

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