



CONCRETE / MASONRY SET ACCELERATOR

Decreases set time of cement & mortar mixes

1. PRODUCT NAME

Akona® Concrete / Masonry Set Accelerator

2. MANUFACTURER

TCC Materials®
2025 Centre Pointe Blvd.
Mendota Heights, MN 55120 USA
Phone: 1.651.688.9116
Web: tccmaterials.com

3. PRODUCT DESCRIPTION

Akona Concrete / Masonry Restoration Set Accelerator is a ASTM C494, Type C, non-chloride, non-corrosive, liquid that improves workability and initial strength while it reduces the hydration time of cement. This premium product is recommended for use during cooler weather to accelerate set time and reduce the risk of frozen mortar and concrete mixes. It is also recommended for use when early strength gain is desired to speed up construction. Concrete / Masonry Set Accelerator provides a reduced curing time, faster set time, and increased early strength. The product speeds finishing operations in any weather condition without any corrosive effects.

Features and Benefits

- Non-Chloride Accelerator
- Non-Corrosive
- Meets ASTM C494 *Standard Specification for Chemical Admixtures for Concrete*
- Increases early compressive strengths of concrete or mortar
- Increases workability of concrete or mortar
- Accelerates initial/final set and curing time for concrete and mortar
- Allows earlier finishing of concrete and removal of concrete forms

When/Where to Use

- Interior or exterior
- Concrete and masonry projects
- To accelerate cement set time to decrease project time
- Freeze thaw conditions

4. TECHNICAL DATA

Meets ASTM C494 Standard Specification for Chemical Admixtures for Concrete.

Available Size

- 1 qt. (0.95 L) bottle (BOM #103963)

Coverage

Refer to Table I: Typical Addition Ratios and Table II: Typical Set Time Properties for the amounts of Set Accelerator to use in each product. Many factors can effect final set times when mixing concrete or mortar product in the field.

Table I: Typical Addition Ratio

Product:	Suggested Rate*:
94 lbs. (42.6 kg) Portland Cement	2 quarts (1.9 L)
70-75lbs. (32-34 kg) Masonry Cement	1 quart (0.95 L)
80 lbs. (36.6 kg) Pre-blended Mortar	½ quart (0.48 L)
60 lbs. (27.2 kg) Pre-blended Concrete	¼ quart (0.24 L)

* Typical addition ratio can be adjusted to achieve desired results

Table II: Typical Set Time Properties

Set Time	Control:	With Set Accelerator
60 lbs. (27.2 kg) Concrete Mix		
Initial Set (hr:min)	3:30	2:35
Final Set (hr:min)	5:10	4:10
Masonry Mortar—Type S		
Initial Set (hr:min)	2:50	1:45
Final Set (hr:min)	5:00	3:20
Masonry Mortar—Type N		
Initial Set (hr:min)	3:45	2:10
Final Set (hr:min)	7:00	5:00

5. INSTALLATION

Preparation

Read all directions before starting work.

- Prepare surfaces per manufacturers instructions of the cement, concrete or masonry product being used. Proper surface preparation is crucial to achieving a successful application.
- Intended for use when temperature is 20°F (-7°C) or higher and a faster set is desired.

Note: It is the responsibility of the installer/applicator to ensure the suitability of the product for its intended use.

Mixing

- Slowly stir Concrete / Masonry Set Accelerator before use. Do not create bubbles by shaking the product.
- Always use clean tools and mixing containers.
- In most cases, substitute recommended “water addition” with equal amount of Concrete / Masonry Set Accelerator or follow packaged product manufacturer instructions for proper ratio on the applicable cement, concrete or mortar bag to provide the desired consistency of the mix.
- When combining the recommended amount of Concrete / Masonry Set Accelerator with water, the Set Accelerator is added directly to the mix water. Reduce the amount of water proportionally to compensate for the liquid addition.

Application

Follow manufacturers instructions for the cement, concrete or masonry product being used.

Curing

Follow manufacturers instructions for the cement, concrete or masonry product being used.

Clean Up

Follow manufacturers instructions for the cement, concrete or masonry product being used.

Limitations

- Follow all industry standard safety procedures when handling, such as gloves and eye protection.
- Do not allow unused bottle of product to freeze. Store dry at 40°F-95°F (4°C-35°C).
- Do not use below 20°F (-7°C).
- This product affects only the Portland cement portion of the mix and is not antifreeze for the water portion.

Safety

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS information is available on our website: tccmaterials.com

Cautions

Read complete cautionary information printed on product container prior to use.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered Akona brand product(s) under normal environmental and working conditions. Because each project is different, TCC Materials cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

6. AVAILABILITY

To locate Akona products in your area, please contact:

Phone: 1.651.688.9116
 Email: info@tccmaterials.com

7. WARRANTY

Seller warrants that its product will conform to and perform in accordance with the product specifications. The foregoing warranty is in lieu of all other warranties, expressed or implied, including, but not limited to those concerning merchantability and fitness for a particular purpose. Because of the difficulty in ascertaining and measuring damages hereunder, it is agreed that Seller's liability to the Buyer shall not exceed the total amount billed and billable to the Buyer for the product hereunder.



Shelf Life	Best when used within one year in original, unopened bottle.
Storage Conditions	Store dry, 40-95°F (4°-35°C), out of direct sunlight, in tightly sealed original labeled container.
Color	Light blue-green liquid.

KEEP PRODUCT IN CONTAINER FROM FREEZING

WARNING: INJURIOUS TO EYES

KEEP OUT OF REACH OF CHILDREN



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