

1. PRODUCT NAME

Tenon™ Set Accelerator

2. MANUFACTURER

Bluestone Products™, a TCC Materials® company
2025 Centre Pointe Blvd.
Mendota Heights, MN 55120 USA

Phone: 1.651.688.9116
Fax: 1.651.688.9164
Internet: tccmaterials.com

3. PRODUCT DESCRIPTION

Tenon™ Set Accelerator is an ASTM C494, Type C, non-chloride, non-corrosive, liquid that improves workability and initial strength while it reduces the hydration time of cement. The 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. Tenon™ 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. This product affects only the Portland cement portion of the mix and is not antifreeze for the water portion.

Features and Benefits

- Non-chloride accelerator
- Non-corrosive
- Meets ASTM C494 *Standard Specification for Chemical Admixtures for Concrete*
- Meets ASTM C1384 *Standard Specification for Admixtures for Masonry Mortars*
- 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

Uses

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

SAFETY

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS information is available on our website: tccmaterials.com or contact TCC Materials® at 651-688-9116 (7:30 AM to 4:00 PM Central US Time).

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 Tenon™ brand product (s) under normal environmental and working conditions. Because each project is different, neither Tenon™ nor TCC Materials® can be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

4. TECHNICAL DATA

Meets ASTM C494 Standard Specification for Chemical Admixtures for Concrete.

Packaging

- 1 gal. (3.78 L) bottle – Product # 120376
- 5 gal (18.93 L) pail—Product #129641

Shelf Life

12 months from the date of manufacture when stored in the original, unopened container, away from moisture, under cool, dry conditions, protected from freezing, and out of direct sunlight. Store dry at 40°F–95°F (4°C–35°C).

5. INSTALLATION

Preparation

- Prepare surfaces per manufacturer's instructions of the cement, concrete or masonry product being used.
- 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.

Job Mockups

The manufacturer requires that when its Tenon™ products are used in any application or as part of any system that includes other manufacturers' products, the contractor and/or design professional shall test all the system components collectively for compatibility, performance and long-term intended use in accordance with pertinent and accepted industry standards prior to any construction. Written documentation of the tests performed shall be satisfactory to the design professional and contractor. Test results must include the means and methods of application, products used, project-specific conditions being addressed, and standardized tests performed for each proposed system or variation.

Mixing

- Slowly stir Tenon™ 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 Tenon™ 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 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 manufacturer’s instructions for the cement, concrete or masonry product being used.

Cleaning

Follow manufacturer’s instructions for the cement, concrete or masonry product being used.

Limitations

- 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.

Coverage / Admixture Rate

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	

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 affect final set times when mixing concrete or mortar product in the field.

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

Coverage / Admixture Rate (cont.)

6. AVAILABILITY

To locate Tenon™ 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.

8. MAINTENANCE

Not applicable.

9. TECHNICAL SERVICES

Technical Assistance:

Information is available by calling TCC Materials®
(hours 7:30 AM to 4:00 PM CST):

Phone: 1.651.688.9116

Email: info@tccmaterials.com

Web: tccmaterials.com

Technical and Safety Literature: To acquire technical and safety literature, please visit our website at: tccmaterials.com.

10. FILING SYSTEM

Division 3



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