

1. PRODUCT NAME

Tenon[®] SuperFlow

2. MANUFACTURER

TCC Materials[®]

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[®] SuperFlow water-reducing admixture is a full range water reducing additive providing a more plastic and flowable concrete. It produces concrete mixes with different levels of workability to include self-consolidating concrete (SCC) applications. Tenon SuperFlow admixture meets ASTM C494-C494M compliance requirements for Type A water-reducing and Type F high-range water-reducing admixtures.

Features and Benefits

- Pre-blended mixture
- Non-Corrosive, Non-Chloride
- Dosage flexibility for normal, mid-range, and high range applications
- Excellent early strength development
- Controls setting characteristics
- Balances the slump retention/setting relationship
- Consistent air entrainment
- Easier and faster pumping of concrete
- Improved finishing characteristics of flatwork
- Reduced segregation at designed slump
- Increased durability and uniformity
- Increased strength at all ages

*Call TCC Materials for state DOT approvals

Uses

- Concrete and Mortar with varying water reduction requirements (5–40%)
- Applications where critical workability and setting times are required
- Applications benefitting from high-early and ultimate strengths
- Sustainable, high durability applications
- Producing self consolidating concrete (SCC)

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, M-F, 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

LEED[®] Eligibility¹

- Regional Materials (MR-c5)
- Low-Emitting Materials (EQ-c14, EQ-c4.3)

Packaging

1 gal. (3.78L) bottle (BOM #113500)

5 gal. (18.9L) pail (BOM #113510)

55 gal. (208L) drum (BOM #113434)

Shelf Life

12 months from the date of manufacture when stored in the original, unopened container, away from moisture, under cool, dry conditions and out of direct sunlight.

Storage and Handling

Store at temperatures above 40°F (5°C). If product freezes, thaw and mix by mechanical agitation.

5. INSTALLATION

Tenon[®] SuperFlow, Water-Reducing Admixture is compatible with most admixtures, air entrainers, accelerators, retarders, extended set admixtures, and shrinkage reducers.

Do not use with admixtures containing beta-naphthlene sulfonate. Undesirable performance in slump, workability retention, and pumpability may be experienced.

SuperFlow will not initiate or promote corrosion of reinforcing steel embedded in the concrete. Neither calcium chloride nor other chloride-based ingredients are used in the manufacture of SuperFlow.

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

For optimum plasticizing results, SuperFlow should be added at the end of batch mixing. SuperFlow may also be used to replace the appropriate amount of mix water when initially mixing. To ensure superplasticizing effect, mixing to full manufacturers requirements are required.

1. Determine volume of mix water required for desired consistency base on the cementitious material being used.
2. Determine the amount of plasticizing required by referring to the dosage table below to determine the amount of SuperFlow needed. Subtract an equal volume of mix water from the total water required. Add mix water and SuperFlow to mixer and blend briefly to incorporate admixture into the mix water. Total volume of mix water and admixture should equal what is specified on the specific cementitious product technical data sheet.

Limitations

- Do not exceed maximum dosage recommendations.
- Install in accordance with local building codes and applicable ASTM standards.
- Do not allow Portland cement-based materials to come in direct contact with uncoated aluminum.
- Mix time and water/admixture amounts should be consistent from batch to batch.

Curing

After placement, follow instructions on product's technical data sheet. Also refer to industry practices for curing cementitious materials.

Cleaning

Use clean, potable water to clean all tools immediately after use. Dried material must be mechanically removed. Use a waste water hardener (e.g. Conglez[™] or similar product) for cementitious waste disposal.

Coverage: SuperFlow has a recommended dosage range of 2–15 fl. oz/cwt (130–975mL/100kg) of cementitious materials. Various concrete materials, slump, ambient air temperature, additions of pozzolanic materials, mixing time, and type of cement will affect dosage. For most mid – to high-range applications, dosages in the range of 5–8 fl. oz/cwt (320–520 mL/100kg) will provide excellent performance. For high performance and producing self-consolidating concrete mixes, dosages up to 12 fl. oz/cwt (780mL/100kg) of cementitious materials can be utilized.

6. AVAILABILITY

To locate Tenon[®] products in your area, please contact:

Phone: 1.651.688.9116

Website: 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, M–F, CST):

Phone: 1.651.688.9116

Fax: 1.651.688.6164

Web: tccmaterials.com

Technical and Safety Literature:

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

10. FILING SYSTEM

Division 3.3, 3.4, 3.7, 4.05

¹Tenon® products can contribute to LEED® credits within the Material Resource, (Recycled Content & Regional Materials) and Indoor Environmental Quality (Low Emitting Materials).

LEED® is a registered trademark of U.S. Green Building Council.



TCC Materials
2025 Centre Pointe Blvd
Mendota Heights, MN 55120
tccmaterials.com
©Copyright 2021 TCC Materials®

REV 08/23