BONDING ADDITIVE COLOR ADMIX COLOR

A high-solids tinted acrylic liquid bonding admixture for cementitious materials

PRODUCT NAME

Tenon® Bonding Additive Color Admix

MANUFACTURER

TCC Materials®
2025 Centre Pointe Blvd.
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PRODUCT DESCRIPTION

Tenon® Bonding Additive Color Admix is a high solids tinted acrylic liquid bonding agent used as an admixture to substantially improve adhesion, impact, shear bond, tensile, flexural, and compressive strength of non-modified cement-based mortars, repair products, tile setting mortars, and grout products. When used as directed, Tenon Bonding Additive Color Admix also improves workability, extends open time/pot life, freeze/thaw and salt resistance, reduces the potential for efflorescence, and has excellent UV resistance. Concentrated with high-solids content, in many applications, it can be diluted with clean water at the job site for extra convenience and savings.

Features & Benefits

As a concrete Bonding Additive Color Admix:

- Improves bond strength
- Interior or exterior

As a cement additive in non-modified mixes:

- Solvent free/VOC compliant
- Increases tensile strength
- Enhances adhesion and durability
- Improves workability
- Improves curing
- Interior or exterior
- Exceeds the physical property requirements stated in ASTM C1059 “Standards Specification for Latex Agents for Bonding Fresh to Hardened Concrete”
- MN DOT approved on list of “Special Surface Finish System”
- Versatile for **use** with mortars, patches, grouts, and underlayments

Uses

As a cement additive in non-modified mixes:

- Portland cement/masonry products
- Portland cement-based repair products
- Portland cement-based grouts
- Reduces water absorption

Available Sizes

- 1 qt. (0.95 L) bottle **(BOM #115322)**
- 1 gal. (3.78 L) bottle **(BOM #115343)**
- 5 gal. (18.9 L) pail **(BOM #115344)**

TECHNICAL DATA

Typical Values		
	Base Mix 3 to 1 - sand/cement ratio (102127)	**Base Mix 2 to 1 - sand/cement ratio (100521)**
Compressive Strength, psi (ASSTM C39)		
24 hr. avg.	1,830 psi (12.6 MPa)	3,110 psi (21.44 MPa)
3 day avg.	2,700 psi (18.6 MPa)	4,680 psi (32.2 MPa)
7 day avg.	3,860 psi (26.6 MPa)	6,170 psi (42.5 MPa)
28 day avg.	4,750 psi (32.75 MPa)	7,360 psi (50.7 MPa)
Tensile Strength, psi (ASTM C190)		
28 day avg.	202 psi (1.39 MPa)	364 psi (2.5 MPa)
Bond Strength, psi (ASTM C1042)		
28 day avg. (air cured)	750 psi (5.17 MPa)	1,030 psi (7.1 MPa)
28 day avg. (water cured)	1,400 psi (9.6 MPa)	1,910 psi (13.1 MPa)

Note: Test results obtained under controlled laboratory conditions at 72°F (22°C) and 50% relative humidity. Reasonable variations can occur due to atmospheric and job site conditions.

Coverage

Consult the product information sheet for the respective mortar, repair product, tile setting mortar, or grout.

LEED® Eligibility[1]

- Regional Materials (MR-c5)
- Low-Emitting Materials (IEQ-c4.1, IEQ-c4.3)

INSTALLATION

Preparation

- Surface must be clean, dry, hard, and free from dirt, loose particles, wax, sealers, curing compounds, efflorescence, grease, paint, and any foreign materials that will inhibit adhesion.
- Existing concrete floors should be free of hydrostatic pressures, and efflorescence.
- Walls and floors must be structurally sound, free of movement, and dimensionally stable.

- Sandblast, hammer, or chip out any loose or poorly bonded substrates prior to making repairs in existing concrete.
- Always follow the preparation steps for the product being modified with Bonding Additive Color Admix.
- Surfaces to receive tile shall be plumb and true with square corners.
- The maximum variation in the required plane is ⅛ in. (3 mm) in 10 ft. (3 m) for tile 15 in. (381 mm) or greater on any one side. The maximum variation for subfloor surfaces from the required plane is ¼ in. (6mm) in 10 ft. (3m) for tile less than 15 in. (381mm) on any one side.
- Concrete floors must be fully cured (28 days) and have a fine broom finish. Sprinkle water on the substrate in various areas looking for penetration. If water droplet or beading of water is noticed, then surface contamination is present that will cause loss of adhesion and must be removed. Smooth troweled surfaces should be scarified to assure bond. Inspect the surfaces that will receive the mortar mixture and the tools used to install it.

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

Depending on the project or product needs, dilute Bonding Additive Color Admix according to the guidelines below or appropriate Tenon product technical data sheet

Typical Mix	Mix Ratio		Total Liquid
	Water	*Bonding Additive Color Admix*	
Product	**Typical Quarts (L) of Liquid**		
80 lb. (36.3 kg) Mortar Mix	3¾ qt. (3.5 L)	1¼ qt. (1.1 L)	≈ 5 qt. (4.7 L)
60 lb. (27.2 kg) Mortar Mix	3 qt. (2.8 L)	1 qt. (0.95 L)	≈ 4 qt. (3.78 L)
60 lb. (27.2 kg) Concrete Mix	1 ¾ qt. (1.65 L)	1 ¾ qt. (1.65 L)	≈ 3 ½ qt. (3.5 L)
60 lb. (27.2 kg) Sand Mix	2 ¼ qt. (2 L)	2 ¼ qt. (2 L)	≈4 ½ qt. (4.25 L)
50 lb. (22.7 kg) Thinset Mortar	none	8.5 qt. (8 L)	≈ 8.5 qt. (8 L)

- Slowly stir Tenon Bonding Additive Color Admix before use. Do not create bubbles or foam by shaking the product.
- When diluting, always use cool, clean, potable water in the range of 50º-80ºF (10º-27ºC).
- Protect new surfaces from use until material is
- completely hard and set.
- Always use clean tools and mixing containers.
- Refer to the respective mortar, repair product, tile setting mortar, or grout manufacturer's instructions for recommended mixing ratios for latex and powder.

Mixing as a cement additive:
Refer to the individual cement mortar (s) product manufacturer's instructions for recommended mixing ratios of latex and powder.

Tenon Conproco® Structural Skin:
1 quart / 50 lb. bag for curing.
2 quarts / 50 lb. bag for reinforced lath/fabric applications

Tenon Conproco Conpro® Stucco:
1 quart / 50 lb. bag

Tenon Conproco Plastermix:
1 quart / 50 lb. bag

Tenon Conproco One shot 2C:
1 gallon / 50 lb. bag

Note: When higher physical performance is required, the ratio of Bonding Additive Color Admix may be increased to meet project requirements. Job site factors such as substrate, horizontal, or vertical application, weather conditions, etc. should be taken into consideration.

Application

Apply only to surfaces that are frost free and above 40°F (4°C) and above 100°F (38°C) within 24 hours of application and 72 hours thereafter, and when rain would not fall on the surface within 24 hours of application. Refer to the individual cement mortar (s) product manufacturer's instructions for specific application instructions.

Curing
Refrain from using curing/sealing compounds over patching materials for a minimum of 2 weeks. Areas in which tile is being set shall be closed to traffic and all other work. Light traffic is not permissible until 16-24 hours after completion, and heavy traffic not until seven days.

Clean Up
Use water to clean all tools immediately after use. Dried material must be mechanically removed.

LIMITATIONS & PRECAUTIONS

Limitations
- High relative humidity, excessive moisture and low temperatures will retard the curing of Tenon Bonding Additive Color Admix.
- Do not use if the temperature is below 40°F (4°C) or above 100°F (38°C).
- Do not apply to a frozen or frosted surface or if the surface temperature will drop below 40°F (4°C) for the initial 72 hours.
- Use only with non-modified mixes, mortars, and grouts.
- Do not use air-entrained cement mixes or with air-entraining admixtures without testing first. Adjustment of air-entrainment may be required
- Do not over mix or aerate mixes.
- Use with proper ventilation.
- Shade and protect patch repairs in windy and/or dry hot weather.
- Do not use sensitive stones, resin backed tiles or cultured marble. Do not soak tile.
- Do not use over oriented strand board (OSB), hardwood flooring, metal, or any other dimensionally unstable substrate.
- Do not allow material to freeze—once it freezes, it will not work properly upon thawing. Discard material that has frozen.
- Do not use on surfaces that have hydrostatic pressure.

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 Tenon 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.

STORAGE & HANDLING

Shelf Life
For best use, the recommended shelf life is 12 months. If shelf life is beyond 12 months, please contact your distributor.

Storage Conditions
Store in the original labeled container, away from moisture, out of direct sunlight. DO NOT STORE NEAR HEAT OR OPEN FLAME. Keep containers tightly sealed when not in use.

ADMINISTRATIVE INFORMATION

Product Availability & Technical Services
Business hours are 7:30 AM to 4:00 PM CST. To locate Tenon products in your area or contact Technical Services:
Phone: 651.688.9116
Email: info@tccmaterials.com

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

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.

Filing System
Division 9

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

TCC MATERIALS
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Data sheets are subject to change without notice. For the latest version, please check the product page at www.tccmaterials.com