



TAMMS SBC

CEMENT-BASED, FIBER-REINFORCED WATERPROOFING COATING

DESCRIPTION

TAMMS SBC (Surface Bonding Cement) is a trowel or spray applied, decorative, fiber-reinforced, breathable, waterproofing coating. The high flexural strength of TAMMS SBC provides excellent resistance to cracking and superior durability against weathering. TAMMS SBC can be used on exterior or interior projects, whether they are above or below grade. TAMMS SBC is an excellent waterproof parge coating for dry stack construction.

PRIMARY APPLICATIONS

- Concrete block
- Brick
- Precast or formed concrete
- Stone
- Stucco
- Cement plaster

FEATURES/BENEFITS

- Crack-resistant
- Levels and fills surface voids
- Excellent parge for dry stack construction
- Easily troweled for a smooth finish

TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

Material Properties @ 75°F (24°C), 50% RH

Compressive Strength ASTM C109		Flexural Strength ASTM C348	
1 day	1,950 psi (13.4 MPa)	3 day	930 psi (6.4 MPa)
7 day	3,170 psi (21.9 MPa)	7 day	970 psi (6.7 MPa)
28 day	4,010 psi (27.7 MPa)	28 day	980 psi (6.8 MPa)

Appearance: TAMMS SBC is available in natural gray and natural white.

PACKAGING

TAMMS SBC is packaged in 60 lb (27.2 kg) poly-lined bags.

SHELF LIFE

1 year in original, unopened package

COVERAGE

One 60 lb (27.2 kg) bag of TAMMS SBC will yield 40 to 50 ft² (3.72 to 4.65 m²) applied at approximately 1/8 in. (3.22 mm) thickness. Leveling uneven surfaces will require additional material. For estimating purposes, 12 to 14 lbs of TAMMS SBC per yd² (6.52 to 7.61 kg/m²) will generally result in a finished coating 1/8 in. to 1/4 in. (3.22 to 6.4 mm) thick.

Note: The coverage rates are approximate and for estimating purposes only. Surface texture, porosity, and thickness of coating determines the total amount of TAMMS SBC required.

DIRECTIONS FOR USE

Surface Preparation: Surface must be structurally sound, clean, and free of contaminants including paint, sealers, and efflorescence. Cure new concrete for a minimum of 28 days. Repair surface defects, cracks, and voids before applying. Cure patches and other surface preparations for a minimum of 24 hours before coating. Provide an absorptive surface on all substrates, including smooth precast or formed concrete by abrading the surface. Dampen surface with potable water immediately before applying TAMMS SBC. For maximum performance and adhesion, use AKKRO-7T in the mixing liquid.

Mixing: Mix TAMMS SBC in a slow-speed rotary mortar mixer with rubber tipped blades, to thoroughly disperse all ingredients and obtain a uniform consistency. Use only potable water for mixing and for dampening the surface. To improve physical properties, adhesion, and curing of TAMMS SBC, blend 1 part AKKRO-7T with 3 parts water to use as the mixing liquid. With the mixer running, add one half of the required liquid, and then slowly add TAMMS SBC. Gradually add more TAMMS SBC and liquid to obtain a smooth, workable consistency. Mix for 3 to 4 minutes. Stop the mixer, and allow material to "fatten" for 5 minutes. Re-start the mixer and mix TAMMS SBC for 2 more minutes.

If necessary, add mixing liquid to bring the mix to the proper trowel or spray application consistency. One 60 lb (27.2 kg) bag of TAMMS SBC will require approximately 6 qt to 7 qt (5.7 L to 6.6 L) of mixing liquid. When using AKKRO-7T in the mix, each bag of TAMMS SBC will require approximately 1.5 qt to 2 qt (1.4 L to 1.9 L) of AKKRO-7T.

Application: Uniformly dampen surface with potable water immediately before starting application. Do not saturate substrate. Re-dampen the surface as needed during application. **Trowel Application:** Apply TAMMS SBC with a steel trowel. Use sufficient pressure and material to ensure a good bond, uniform thickness, and complete coverage of the surface. Maintain a minimum thickness of 1/8 in. (3.2 mm) for each application. When heavier coats are required, build up to the desired thickness in successive applications. Allow 24 hours drying time between coats. Do not exceed a maximum thickness of 3/16 in. (4.8 mm). **Spray Application:** Dampen the wall as indicated above. Apply TAMMS SBC by spray when large areas are to be coated. For best results, use an overlapping, circular spray pattern. The finished two-coat system should be approximately 1/4 in. to 5/16 in. thick (6.4 mm to 8.0 mm). **Structural Application:** Spray applications of TAMMS SBC may be used to convey large amounts of material to the wall; however, the material must be steel troweled to ensure a firm mechanical bond of the base coat to the surface. This method is also used for surface bonding application. Additional coats may be spray troweled or float finished, or left with the spray applied texture.

Surface Bonding: TAMMS SBC may be used to build unit masonry walls without mortar. Concrete block must be dry, clean, sound, and free of contaminants that would prevent proper adhesion. Level the first course of block in a full bed of mortar or TAMMS SBC. Stack the remaining courses of block, without mortar, in a running bond pattern. To plumb and level the wall, use mortar or TAMMS SBC. Do not use wood shims or sand for leveling. Use TAMMS SBC or mortar to fill gaps 1/4 in. (6.4 mm) or larger. Lay the top course of the wall in a full mortar bed. Dampen wall with potable water immediately before the application. Trowel on a minimum 1/8 in. (3.2 mm) thickness of TAMMS SBC. Continue to wet the wall as needed to maintain a damp surface ahead of the trowel application. Should the surface dry out, and the material start to pull, dampen the wall again. For surface bonding construction, TAMMS SBC must be applied to both sides of the wall. Apply the material to each complete wall section without interruption. When this is not possible, cut the material straight and square in the middle of one course to form a butt joint, so that the horizontal joint will not be overlapped when the application is resumed. Do not exceed 45 ft²/60 lb bag (6.5 m²/27.2 kg).

Curing: To prevent the development of shrinkage cracks from very rapid drying, the finished work should be periodically fog spray cured with water for 24 to 48 hours following application. Weather and jobsite conditions will dictate the amount and frequency of dampening required. Protect finished work from rain and other adverse weather conditions for 48 hours following application. **Cold Weather Protection:** When temporary heaters are required to maintain temperature, ensure that the heat and fumes face away from the finished work. Use fans for proper air movement and circulation as needed. **Hot Weather Protection:** Protect surfaces with wind screens and shade screens during periods of high temperatures, low humidity, sun, or wind.

CLEAN-UP

Clean mixing and application equipment with water immediately after use. Clean splatter or spills with water before material sets. TAMMS SBC with AKKRO-7T in the mixing liquid becomes extremely difficult to remove if allowed to dry on a surface.

PRECAUTIONS/LIMITATIONS

- Do not retemper TAMMS SBC.
- Spray using only high production plaster spray machines or hopper-texture spray guns.
- Do not use high pressure or airless spray equipment.
- Protect application surface during weather extremes.
- Do not apply TAMMS SBC to frozen or frost filled surfaces, or when temperatures are expected to fall below 40°F (4 °C) or rise above 100°F (37°C) in 72 hours without proper protection and temperature control.
- When using TAMMS SBC containing AKKRO-7T in enclosed tanks or reservoirs, ensure that adequate ventilation is available during application and the full curing period.
- When applied to the inside of open cisterns, tanks, pools, etc., do not fill with water for at least 7 days after application. Wait a minimum of 72 hours after curing before applying a decorative coating.
- In all cases, consult the Material Data Sheet before use.

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