

Bond Accelerator 4000 Latex Additive

1 Product Name

Bond Accelerator 4000 Latex Additive

2 Manufacturer

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3 Product Description

BOND ACCELERATOR 4000 is a latex admixture that accelerates the set of dry set mortars while providing a higher bond strength. Meets ANSI A118.4 and ANSI A118.6.

Uses

BOND ACCELERATOR 4000 is designed for high speed installations or repair jobs where normal time conditions are not available. Installation can be ready for use in a matter of 4 to 8 hours. BOND ACCELERATOR 4000 in conjunction with a dry set mortar, will provide a higher bond strength than regular dry set, allowing for permanent installation on both interior and exterior surfaces. Use for setting absorptive, semi-vitreous and vitreous tile.

Suitable Substrates

Suitable backings, when properly prepared, include plumb and true masonry concrete, gypsum board (dry interior walls only), glass mesh mortar units, cured Portland cement beds, ceramic tile, and marble.

Limitations to the Product

BOND ACCELERATOR 4000, when mixed with a dry set mortar should not be used directly over wood, asphalt substrates, vinyl covered wall board, cement asbestos board, metal, plastic or gypsum mortar beds. Not to be used as an additive with MULTI-PURPOSE FLEX, MARBLE MASTER®, MASTER COLOR™ GROUT OR SOUND OUT®.



4 Technical Data

Technical Chart

Technical Data

	Typical Value Dry-Set/BOND ACCELERATOR
Pot Life	25 minutes
Set Time	1 hour
Bond Strength (ANSI A118.1)	
Vitreous Tile:	
4 hour	65 psi (4.5 kg/cm ²)
8 hour	125 psi (8.8 kg/cm ²)
16 hour	250 psi (17.6 kg/cm ²)
24 hour	393 psi (27.6 kg/cm ²)
72 hour	395 psi (27.8 kg/cm ²)
7 day	435 psi (30.6 kg/cm ²)
Non-Vitreous Tile:	
4 hour	74 psi (5.2 kg/cm ²)
8 hour	140 psi (9.8 kg/cm ²)
16 hour	280 psi (19.7 kg/cm ²)
24 hour	387 psi (27.2 kg/cm ²)
72 hour	587 psi (41.3 kg/cm ²)
7 day	693 psi (48.7 kg/cm ²)
Dry-Set/Water	
Pot Life	3 hours
Set Time	3 hours
Bond Strength (ANSI A118.1)	
Vitreous Tile:	
4 hour	120 psi (8.4 kg/cm ²) est
8 hour	30 psi (2.1 kg/cm ²) est
16 hour	64 psi (4.5 kg/cm ²)
24 hour	150 psi (10.5 kg/cm ²)
72 hour	200 psi (14.1 kg/cm ²)
7 day	250 psi (17.6 kg/cm ²)
Non-Vitreous Tile:	
4 hour	35 psi (2.5 kg/cm ²)
8 hour	70 psi (4.9 kg/cm ²)
16 hour	100 psi (7.0 kg/cm ²)
24 hour	150 psi (10.5 kg/cm ²)
72 hour	180 psi (12.7 kg/cm ²)
7 day	300 psi (21.1 kg/cm ²)



CUSTOM®

Bond Accelerator 4000 Latex Additive

5 Instructions

General Surface Prep

All floors must be structurally sound, free of frost, and in an atmosphere above freezing during the initial cure (72 hours). Concrete and other cementitious substrate floors must be dry and free of dirt, and other foreign matter. Cleaning may be accomplished via mechanical sanding, scraping or chipping. Surfaces should be further cleaned by acid washing using a 10% solution of muriatic acid. It is important that the acid sludge is thoroughly flushed with water.

Mixing Procedures

Use as a direct replacement for water with dry set mortars. For grouting, dilute BOND ACCELERATOR 4000 one to one with water.

Application of Product

Use BOND ACCELERATOR 4000 as a direct replacement for water with dry set mortars. Add sanded thin-set mortars to the liquid and mix to a smooth consistency. DO NOT USE A HIGH SPEED DRILL TO MIX MORTAR. Mix only enough thin set that can be used in 15 minutes. Spread mortar with the flat side of the trowel to wet the substrate; then apply mortar to a depth sufficient to be notched with a 1/4" x 3/8" x 1/4" (6.5 x 9.5 x 6.5 mm) notch trowel. With high lug tiles back buttering may be required to get a minimum of 95% surface contact. The finished mortar bed shall be a minimum of 1/8" (3.2 mm) thick after tiles have been beat in. Do not adjust tiles after they have been set for 10 – 15 minutes.

Curing of Product

Normal grouting may be done after 4 hours; open to light traffic in 8 hours. A minimum cure will be obtained in 2 hours depending on ambient temperature.

Cleaning of equipment

Water will remove uncured mortar.

Health Precautions

May cause eye, skin or lung injury. Contains free silica. Prolonged exposure to dust may cause delayed lung disease (silicosis). May cause cancer based on animal data. Eliminate exposure to dust. Use NIOSH approved dust mask for silica dust. Contains Portland cement. If any cement or cement mixture gets into eyes, flush immediately and repeatedly with water, and consult physician promptly. Fresh mixed cement, mortar, concrete, or grout may cause skin injury. Avoid contact with skin where possible and wash exposed skin areas promptly with water. KEEP OUT OF REACH OF CHILDREN.

6 Availability & Cost

Item Code	Size	Package
173003	1 gallon (3.78 L)	Jug/6 CS

Texture

Milky white, low viscosity liquid.

7 Product Warranty

Seller warrants that should this product prove to be defective material, it will replace the same or refund the purchase price of the goods. THIS WARRANTY IS IN PLACE OF ALL OTHER WARRANTS EXPRESSED OR IMPLIED. WARRANTIES OF MERCHANTABILITY AND OF FITNESS ARE HEREBY DISCLAIMED. The suitability of a product for an intended use shall be solely up to the user. Seller assumes no liability for consequential damages. Its liability shall in no event exceed the purchase price of the materials supplied by it. No person has the authority to change these items and there are no warranties except as herein stated.