

QUIKRETE

Mining Products

BLOCBOND®*Product Code: 1225-51***PRODUCT DESCRIPTION**

Basic Use: Used underground to construct mortarless walls for strength and air routing. Seals air leakage. Can be used in the following areas:

- Permanent stoppings and overcasts
- Permanent seals
- Seal old stoppings and overcast
- Patch masonry
- Fireproof coating

Limitations: Use only when temperature is 40° F (4.4C) or higher. In cold weather, use warm water. Only apply to clean, moist surfaces. Do not apply to block surfaces that are covered with coal or rock dust. Proper curing of a cementitious mix is necessary for maximum strength to be achieved. Cementitious material, which has been moist-cured, will be stronger than that exposed to dry air.

Composition and Materials: BLOCBOND® is a surface bonding cement containing a blend of portland cement, fiberglass fibers and special additives.

Packaging: 50 lb (22.7) kg bag

Yield: 50 lb (22.7 kg) at 1/8" (3.2mm) thick will yield approximately 50 ft² (4.65m²)

Curing: To properly cure, spray with a curing compound, or keep moist for at least three (3) days by an occasional fine misting of water.

Color: Cement Gray

TECHNICAL DATA

BLOCBOND® has been found by MSHA to be suitable for use as a structural coating on mortarless walls underground, such as permanent stoppings, or overcasts and seals. It is also suitable for use on permanent seals constructed with cellular foam cement block.

Applicable Standards: Typical results obtained on BLOCBOND®, when tested in accordance with the applicable ASTM Test Methods, are shown in the following tables:

Wall Strength Test ASTM E-72	
Flexural Strength/ Vertical Span	
BLOCBOND Wall	81 lbs./sq. ft. (395 kg/m ²)
Standard Mortared Wall	39 lbs./sq. ft. (190 kg/m ²)

Material Strength Test ASTM C-887		
Test Time	Minimum Compressive Strength	BLOCBOND
1-day	1600 psi (11 MPa)	2000 psi (13.8 MPa)
7-day	-----	4000 psi (27.6 MPa)
28-day	3500 psi (24.1 MPa)	6000 psi (41.4 MPa)
Test Time	Minimum Flexural Strength	BLOCBOND
1-day	450 psi (3.1 MPa)	500 psi (3.4 MPa)
7-day	700 psi (4.8 MPa)	900 psi (5.2 MPa)
28-day	800 psi (5.5 MPa)	1100 psi (6.2 MPa)

Air Permeance Test Leakage rate CPM/100 sq. ft. (cc/min/m ²)		
Equivalent Air Pressure Inches of Water	Reference Block	Both Sides
1" (2.5 cm)	180 (152)	0.00 (0.00)
2" (5 cm)	364 (308)	0.002 (0.0017)
8" (20.3 cm)	700 (592)	0.073 (0.062)

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INSTALLATION

Surface Preparation: All surfaces should be clean and free of foreign substances that would cause BLOCBOND® bond failure. Do not apply to concrete masonry surfaces that are covered with coal or rock dust. The surface to be coated should be moistened before applying BLOCBOND®.

Mixing: Pour 1 ¾ gallons (6.6 L) of water into a clean container. Add the entire bag of BLOCBOND® into the water. Only clean potable water should be used with a pH range of 4.5 to 8.5. Mix for two (2) to three (3) minutes. Avoid mixing in excess of five minutes, or fibers will break down. More water may be added to achieve a mortar-like consistency.

Application: In dry-stack wall construction, the first course of block must be laid in a bed of BLOCBOND® or mortar beginning with the end of the wall. It is essential that the first course be perfectly aligned and leveled. Subsequent courses can then be dry-stacked by stepping back half a unit length on each course to maintain a running bond in the block-wall pattern. Shims may be required to keep the wall plumb and level. BLOCBOND® should be applied at least 1/8" (3.2mm) thickness to both sides of the wall by trowel or gloved hand. Be sure there is an adequate width (approx. 1" or 2.5cm) on all joints between block and surrounding material to allow for shrinkage and air tightness.

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