



# BBOND<sup>®</sup> MS MINE SEALANT

PRODUCT NO. 1234

## PRODUCT DESCRIPTION

QUIKRETE<sup>®</sup> BBond<sup>®</sup> MS meets the MSHA requirements for use as a structural coating on mortarless walls underground, such as permanent stoppings or overcasts.

## PRODUCT USE

QUIKRETE<sup>®</sup> BBond<sup>®</sup> MS is 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
- Seal old stoppings and overcast
- Patch masonry
- Fireproof coating

## SIZES

• QUIKRETE<sup>®</sup> BBond<sup>®</sup> MS - 50 lb (22.7 kg) (product #1234-50) or 38.6 lb (17.5 kg) (product #1234-40) bag.

## YIELD

• 50 lb (22.7 kg) at 1/8" (3.2mm) thick will cover approximately 50 ft<sup>2</sup> (4.6 m<sup>2</sup>). The 17.5 kg bag will cover approximately 38 ft<sup>2</sup> (3.5 m<sup>2</sup>) at the same thickness.

## TECHNICAL DATA

QUIKRETE<sup>®</sup> BBond<sup>®</sup> MS complies with ASTM C 887 for Surface Bonding Mortar. Typical results obtained on BBond<sup>®</sup> MS, 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	
BBond <sup>®</sup> MS Wall (minimum thickness of 3/16" (4.7 mm))	58 lbs./sq. ft. (283 kg/m <sup>2</sup> )
BBond <sup>®</sup> MS Wall (minimum thickness of 1/8" (3.2 mm))	47 lbs./sq. ft. (229 kg/m <sup>2</sup> )
Standard Mortared Wall	39 lbs./sq. ft. (190 kg/m <sup>2</sup> )

Flammability Rating - ASTM E 162	
Flame Spread Index	0

Test Age	Compressive Strength	
1-day	1,600 psi	(11 MPa)
28-day	3,500 psi	(24.1 MPa)
Test Age	Flexural Strength	
1-day	450 psi	(3.1 MPa)
7-day	700 psi	(4.8 MPa)
28-day	800 psi	(5.5 MPa)

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

## INSTALLATION

### SURFACE PREPARATION

All surfaces should be clean and free of foreign substances that would cause BBond<sup>®</sup> MS 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 BBond<sup>®</sup> MS.

### MIXING

Pour about 2 gallons (7.6 L) of water per 50 lb bag or about 1 1/2 gallons (5.5 L) of water per 17.5 kg bag into a clean container. Add the BBond<sup>®</sup> MS to the water while mixing. 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 BBond<sup>®</sup> MS 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. BBond® MS should be applied at a minimum thickness of 1/8" (3 mm) to both sides of the wall by trowel or gloved hand. Be sure there is an adequate width (approx. 1" or 25 mm) on all joints between block and surrounding material to allow for shrinkage and air tightness.

#### **CURING**

Under moderate conditions, no special curing is required. For best results in low humidity, spray with a curing compound or keep moist for at least 3 days by occasional misting with water.

#### **PRECAUTIONS**

Use only when temperature is 40°F (4.4°C) 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.

#### **WARRANTY**

NOTICE: Obtain the applicable LIMITED WARRANTY: at [www.quikrete.com/product-warranty](http://www.quikrete.com/product-warranty) or send a written request to The Quikrete Companies, LLC, Five Concourse Parkway, Atlanta, GA 30328, USA. Manufactured under the authority of The Quikrete Companies, LLC. © 2018 Quikrete International, Inc.