



Atlas Minerals & Chemicals, Inc.



DATA SHEET

8-51PS (1-99)
Supersedes 8-51PS (7-93)

VITROBOND® 120 SPECIFICATION

DESCRIPTION

The jointing compound must contain at least 55% refined sulfur completely soluble in carbon disulfide and present primarily in the rhombic form. It must contain not more than 45% of a properly selected aggregate. The aggregate must be at least 90% silica and have a particle size so distributed as to give optimum physical properties. No clay, shale, brick dust or similar fillers shall be used.

This cement must meet ASTM C287 for chemical resistant mortars and must show weight change of less than 1% when 1" cylinders are exposed to the following corrosive materials for 30 days at 150°F (66°C):

- 10% Chromic Acid
- 60% Acetic Acid
- 25% Sulfuric Acid
- 25% Hydrochloric Acid
- 10% Nitric Acid

The compound must act as an electrical insulator and show no passage of current when electrodes are placed apart a distance of 1/2" on the surface under a potential of 45 volts.

PRODUCT SPECIFICATION

The system shall be VITROBOND 120 as manufactured by Atlas Minerals & Chemicals, Inc.

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUE
Density	ASTM C905	137 lb./cu. ft. (2.19 g./cc.)
Tensile Strength, 48 hours @ 77°F (25°C)	ASTM C307	400 psi., min. (2.76 MPa)
Compressive Strength, 48 hours @ 77°F (25°C)	ASTM C579	6,000 psi., min. (44.8 MPa)
Flexural Strength, 48 hours @ 77°F (25°C)	ASTM C580	1,000 psi., min. (6.89 MPa)
Coefficient of Thermal Exp. in./in./°F (cm./cm./°C)	ASTM C531	2.8 x 10 ⁻⁵ max. (5.0 x 10 ⁻⁵)
Water Absorption	ASTM C413	0.2% max.
Strength Retained after Thermal Shock	ASTM C287	150 psi., min. (1.03 MPa)
Tend. of Aggregate to Settle, Max. Variation from Unity	ASTM C287	0.15

NOTE: ATLAS makes it a practice to continuously update and enhance our CCM (Corrosion Resistant Construction Materials) products. For the most recent version of any Data Sheet, please visit our Web site at www.atlasmin.com.