



# Monokote<sup>®</sup> Fireproofing **FIREBOND**

## Product Data and Application Instructions

### DESCRIPTION

FIREBOND is a styrene acrylic emulsion and is UL classified bonding agents approved for use with any of the fire protection or acoustical treatment products manufactured by Arabian Vermiculite Industries. It is non-toxic, non-flammable and ready to use. FIREBOND is classified in compliance with ASTM E-119 and ASTM E84 and listed in the UL fire resistance directory, category CBUI, encapsulants.



### PROPERTIES

- Volatile: Water
- Actual VOC content: 14.3 ± 10 g/L
- Average Particle Size: 0.2 micron
- Flash Point: Noncombustible (water-based)
- Odor: Virtually odorless
- Shelf Life: @ 78 °F, 24 months minimum, (in originally factory sealed containers)
- Weight per gallon at 78 °F: 8.8 lbs.
- Dry Time @ 78 °F:
  - To touch: 1-2 hours
  - Additional coats: 4-6 hours
- Fire rating ASTM E84-81a: Class “A”
  - UL reference: R13770, 91NK26693
  - Flame spread: 5.1
  - Smoke developed: 3.1
- Packaged: 5 and 55 gallon containers

### APPLICATIONS

FIREBOND may be used as a bonding agent or surface sealer for the following applications:

1. As a bonding agent over polystyrene or, urethane foam insulation prior to application of Monokote Type Z3306 Thermal Barrier.
2. As a bonding agent over primed/painted structural steel (columns, beams and joists) prior to application of Zonolite Lightweight Concrete, INSUPERL LWC, MONOKOTE Types MK-5 and MK-6, Zonolite Type 105, Monokote Type 106, Monokote Type 146, Monokote Types PK-140, PK-150, Avikote AV 650, Avikote AV 800 and Retro-Guard Types RG and RG-1.
3. As a bonding agent over concrete floor and/or roof units (including slab, pan joist, hollow-core or precast plank or TEE units) prior to application of the products listed in item 2.
4. As a bonding agent for use over any approved substrate prior to application of Sonotex range of products.
5. As a surface sealer over any of the above products. Coverage rate requirements will vary based on project requirements. A surface sealer shall be installed in one or more coats in such a manner that

the sealer does not saturate the fire protection product. The fire protection product should be substantially dry prior to sealer application.

### APPLICATION

**FIREBOND** can be applied by airless spray, brush or roller at the spread rate of 12 m<sup>2</sup> per litre per coat. Application shall be done on a clean surface as per good painting practices.

Equipment: Graco Airless Spray Pump  
Pressure: 2500-2700 psi  
Hose Length: 100 ft. (30 mtrs)  
Hose Dia.: 1/4"  
Tip Size: 0.015"-0.025"  
Fan Size: 12"  
Coverage: 500 ft<sup>2</sup>/US gal (Theo) – (12 m<sup>2</sup>/litre)  
Cleanup: Tools and drippings should be cleaned with soapy water

### CLEAN UP

Clean tools and drippings with warm soapy water before Firebond dries.

Refer to Arabian Vermiculite Industries product literature to determine acceptability of fire protection products for the intended use. Any inquiry related to products manufactured by Arabian Vermiculite Industries should be addressed to:

Arabian Vermiculite Industries  
P.O. Box 7137, Damma 31462  
Saudi Arabia

### SAFETY PRECAUTIONS

- ❖ KEEP OUT OF REACH OF CHILDREN
- ❖ KEEP FROM FREEZING
- ❖ DO NOT STORE AT TEMPERATURES OVER 100 °F

#### Sales Offices:

**DAMMAM**  
P.O. Box 7137, Dammam 31462, Saudi Arabia  
Tel.: (03) 847-1450, Fax: (03) 847-1575  
Telex: 803144 KASFIN SJ  
E-Mail: [avi@avi-sa.com](mailto:avi@avi-sa.com)

**RIYADH**  
P.O. Box 61531  
Riyadh 11575  
Saudi Arabia  
Tel. & Fax: (01) 478-4440

**JEDDAH**  
P.O. Box 408, Jeddah 21411, Saudi Arabia  
Tel.: (02) 653-1333 / (02) 651-5615,  
Fax: (02) 653-0588



Manufactured in Saudi Arabia by:  
**ARABIAN VERMICULITE INDUSTRIES**

