

Firebond

Bonding Agent

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 listed in the UL fire resistance directory, category CBUI, encapsulant materials.

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 Zonolite 3306 Thermal Barrier
2. As a bonding agent over primed/painted structural steel (columns, beams and joists)¹ prior to application of Monokote Type MS-5 and MK-6, Zonolite Type 105, Zonolite 106, Zonolite 146, and Retro-Guard Types RG-RG-1², Avikote AV650 and Avikote AV800
3. As a bonding agent over concrete floor and/or roof units (including slab, pan joist, hollow-core or pre-cast plant 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 (where specified) 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 substrate the fire protection product. The fire protection product should be substantially dry prior to sealer application.

Application

Graco Encapsulator II or airless spray equivalent, roller or brush.

Pressure	: 2500 – 2700 PSI
Hose Length	: 100'
Hose diameter	: ¼"
Tip size	: 0.015 – 0.25 (orifice size)
Fan size	: 12"
Coverage	: Firebond – 500 sq. ft./gal.
Clean up	: Tools and drippings should be cleaned with soapy water

Firebond is a water-based product with very low VOC content of 0.5g per liter.

Refer to AVI product literature to determine acceptability of fire protection or acoustical treatment products for the intended use.⁴

Footnotes

1. Refer to the "Spray Material" section (pp.10-11) of the Underwriters Laboratories, Inc. Fire Resistance Directory for requirements/restrictions to the use of primed/painted structural steel in fire resistance designs.
2. The use of Retro-Guard Types RG and RG1 is often associated with abatement projects. These products are not substitutes for UL classified post-removal lockdowns. Refer to the Encapsulant Materials (CBUI) category of the UL Fire Resistance Directory for additional information.
3. The use of a surface sealer over Sonotex 1 or any acoustical treatment may reduce the NRC value of the installed product.
4. Monokote, Retro-Guard, Sonotex and Zonolite are registered trademarks of Grace Construction and Packaging Applied Technologies, formerly W.R. Grace and Company, U.S.A. and manufactured by Arabian Vermiculite Industries in Dammam, Saudi Arabia.
5. Avikote AV650 and Avikote AV800 are manufactured by Arabian Vermiculite Industries.