

Monokote® Z-3306/G

Thermal Barrier

Product Description

Monokote® Z-3306/G Thermal Barrier is a gypsum based fire protective coating specifically formulated for application over sprayed polyurethane foam plastics (SPF) with a nominal density of 0.5 pounds per cubic foot (pcf). Spray applied to interior foam surfaces on walls and ceilings, Z-3306/G forms a well adhered, monolithic thermal barrier against heat and fire.

Z-3306/G is a mill-mixed product requiring only the addition of water. Prior to application of Monokote Z-3306/G, the application of Firebond® Concentrate at a nominal rate of 500 ft²/gal is required to all foam surfaces. For maximum yield benefit and set characteristics, Z-3306/G can be applied using Monokote Accelerator.

With Monokote Accelerator, Z-3306/G can be applied to the required thickness in a continuous uninterrupted operation. This results in an efficient, low cost operation that meets building code and insurance requirements.

In developing Z-3306/G, AVI Products has utilized its experience and technology as the producer of Monokote spray applied fireproofing products – the most widely used structural steel fireproofing brand in North America. Sales and technical service personnel located throughout the United States and Canada provide close technical support to contractors, owners and specifiers.

Benefits

While specific requirements differ from locality to locality, the use of minimum 0.5 pcf SPF for most building occupancies is permitted only when they are protected by an approved thermal barrier. Z-3306/G has been success- fully fire-tested for performance, reliability, ease of application and low in-place cost.

- **Proven fire test performance** - Z-3306/G has successfully passed the International Building Code requirements for code compliant use as a thermal barrier over minimum 0.5 pcf urethane foam plastics.
- **Economical** - High application rate makes Z-3306/G the low cost way to protect foam plastics. The use of Monokote Accelerator adds more savings by maximizing yield and set characteristics reducing labor and time to complete the project
- **Damage resistant** - Z-3306/G dries to a hard, durable surface which resists damage.

In Place Performance: Physical Properties

- **Bond Strength (ASTM E736)** - min 200 lbs/ft²
- **Compressive Strength (ASTM E761)** - 1,200 psf
- **Density (ASTM E605)** - minimum 15 pcf average; minimum 14 pcf individual
- **Color** - Gray
- **Theoretical yield** - max 44.5 bd ft/bag

Test Method	Thickness of Z-3306/G	Test Results
ASTM E84 (Surface Burning Characteristics)	N/A	Flame Spread = 0 Smoke Developed = 0
NFPA 286/UL 1715 – Corner Room Test	3/4 in. (19mm)	Passed

Installation

Z-3306/G is packaged in kraft poly-lined bags for easy handling and storage.

Firebond Concentrate (Bonding Agent) must be applied to all foamed surfaces at a rate of 500 ft²/gal prior to application of Z-3306/G. Firebond should be allowed to become tacky or dry prior to application of Z-3306/G.

Z-3306/G is formulated for machine application in standard gypsum plaster type equipment. Z-3306/G is mixed with water in a paddle plaster-type mixer to form a consistent, pumpable slurry which is then spray applied to foamed plastic previously treated with Firebond Concentrate.

Where desired, the natural sprayed texture of Z-3306/G can be lightly troweled to form a semi-smooth, paintable surface. After completely dry, Z-3306/G may be painted with acrylic and other paints formulated for interior use conditions over gypsum plaster based materials. Thin latex modified surface coatings may also be applied to Z-3306/G to increase surface hardness. All coatings must meet exposed interior use code requirements and surface burning characteristics (ASTM E84 of smoke < 450, Flame Spread < 200) Contact your AVI representative for guidance prior to application of coatings to Z-3306/G. So called "waterproofing coatings" of any kind will not prevent water penetration of Z-3306/G and may not be used.

Typical Application and Limits of Use

Z-3306/G may be used to protect foam plastics in many types of buildings. Monokote Z-3306/G is gypsum plaster based and is designed for interior use only. Z-3306/G should not be used for exterior applications or exposure to continuous unconditioned high humidity environments or where free water may condense. For high humidity or damp applications, AVI recommends the use of Monokote Z-3306 Portland Cement based Thermal Barrier.