

# Monokote® Type Z-3306

## Thermal Barrier

Monokote® Type Z-3306 Thermal Barrier is a cementitious fire protective coating specifically formulated for application over rigid, urethane and polystyrene foam plastics. Spray-applied to interior foam surfaces on walls and ceilings, Type Z-3306 forms a hard, durable, monolithic thermal barrier against heat and fire.

Type Z-3306 is a mill-mixed product requiring only the addition of water. It can be easily applied to required thickness in a single pass resulting in an efficient, low-cost method of meeting building code and insurance requirements.

In developing Type Z-3306, Grace Construction Products has utilized its experience and technology as the producer of Monokote® Spray Fireproofing Products — the most widely used structural steel fireproofing brand in North America. Sales and technical 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 foam plastics for most building occupancies is permitted only when they are fully protected by an approved thermal barrier. Type Z-3306 has been successfully fire-tested and listed by Underwriters Laboratories Inc. and meets all known insurance and code requirements for thermal barriers. Type Z-3306 has a proven field and laboratory record of performance, reliability, ease of application and low in-place cost.

Listing Agency	Test Method	Substrate	Thickness of Type Z-3306
ULC	S124A	Foam Plastic	21 mm
	*S124B	Foam Plastic	17 mm
	S124C	Foam Plastic	20 mm
	S124D	Foam Plastic	17 mm

\*1990 National Building Code of Canada Requirement for 10 minute Class B rating.

Testing Agency	Test Method	Substrate	Thickness of Type Z-3306	Test Result
ULI	ICBO Enclosed Corner Test	Urethane Foam	13 mm	Type Z-3306 passes
		Styrene Foam	13 mm	Type Z-3306 passes
	ASTM E 119 (Protective Membrane)	Foam Plastic	19 mm	15 Minute Rating
			29 mm	30 Minute Rating
	ASTM E 84 (Tunnel Test)	Urethane Foam 5 cm (2 in.)	13 mm	Flame Spread 10 Fuel Contributed 0 Smoke Developed 0
			13 mm	Flame Spread 5 Fuel Contributed 0 Smoke Developed 0

### Proven Fire Test Performance

Type Z-3306 has successfully met ULI and ULC requirements as a thermal barrier over foam plastics.

### Economical

Ease of installation makes Type Z-3306 a low cost way to protect foam plastics.

### Workable

After being spray-applied, Type Z-3306 may be lightly trowelled.

### Damage Resistant

Type Z-3306 dries to a hard, durable surface which resists damage.

### Humidity Resistant

Type Z-3306 will not be affected by high humidity and reduces sweating often experienced in vegetable storage areas.

### Washable

When trowelled and painted, Type Z-3306 can be washed and cleaned.

### Physical Properties

#### Density:

384 kg/m<sup>3</sup> (24 pcf)

#### Bond Strength:

2441 kg/m<sup>2</sup> (500 lb/ft<sup>2</sup>)

#### Color:

Grey or White

#### Theoretical Yield:

25 bd ft/bag  
[4.6 m<sup>2</sup> at 12 mm thickness  
(50 ft<sup>2</sup> at ½ in.)]



### Installation

Type Z-3306 is easy to install. And, it arrives on the job site in strong poly-lined bags for easy handling and storage.

Type Z-3306 is mixed with water in a plaster-type mixer to form a consistent, pumpable slurry. This slurry is then spray-applied.

After spraying, Type Z-3306 may be trowelled to provide a flat, level surface and painted where desired. It can also be oversprayed with Topkrete® TK-610L for a concrete-like finish capable of withstanding severe physical abuse.

Type Z-3306 can be applied directly to most foam plastics. A bonding agent is required only on ceiling areas where repeated condensation may occur, on old urethane surfaces and over all polystyrene substrates.

Ask for the Type Z-3306 Equipment and Application Requirements brochure for detailed installation information.

### Typical Applications

Type Z-3306 may be used to protect foam plastics in many types of buildings. The following is a brief list of typical applications:

- Breweries
- Controlled atmosphere apple storage
- Fish processing plants
- Freezers
- Ice arenas
- Indoor tennis courts
- Pig and dairy barns
- Potato and vegetable storage
- Seed storage and processing
- Swimming pool/recreation centers
- Water treatment plants
- Welding shops

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