



## **EXTERIOR WALL COATS**

### **DESCRIPTION**

Thermo-Shield® Exterior Wall Coats are highly efficient, energy-saving, flexible coatings, designed to insulate and waterproof exterior walls. They are non-toxic, friendly to the environment, and form a monolithic (seamless) membrane that bridges hairline cracks. They are completely washable and resist many harsh chemicals and dirt pick-up. These water-based coatings are made from an acrylic resin system filled with vacuumed ceramic micro spheres that acts as a thermally efficient blanket. Thermo-Shield® Exterior Wall Coats can be applied by roller or sprayer. Thermo-Shield® Exterior Wall Coats put a stop to the "frequent painting cycle" - they outlast other paints several times over. They have superb waterproofing performance, fire resistance and their adhesion increases with saturation. These coatings have "Variable Permeability" - they become watertight when saturated by water, and breathe away trapped water vapor when dry. They protect against UV, greatly reduce thermal shock and sound transmission, and have low VOC levels. These coatings come in a variety of architectural colors and leave a beautiful matt finish.

### **TYPICAL USES**

For painting concrete, metal, wood, polymerized surfaces and reducing condensation. **STD EXTERIOR:** Used in most climatic conditions where color fading is a major concern. It has superb fire resistance, excellent chemical resistance to salt spray, strong acids, petroleum products and other harsh chemicals. **TROPICAL EXTERIOR:** With the same properties as STD, it is used in climatic conditions where fungi growth is a major concern. **ACENT BASE:** No pigmentation. Used as a clear coat or when tinting for darker colors.

### **INSULATION**

Reflectance 89%    Emittance 94%    Conductance 0.06 W/mK - unlike typical mass insulation where heat conduction is just slowed down, this technology keeps the heat out. Sun light only produces heat when it is absorbed by a surface. The amount of sun light left over after the *reflection process*, can either be absorbed into the wall surface as heat, or emitted back out into the atmosphere as infrared, not heat. The *emittance process* leaves less than 2% of radiant energy to be absorbed into the surface as heat. The coatings, although at a small thickness, have a very low conductivity value to do the rest of the insulation work.

### **PRIMER**

No primer is usually required. Follow instructions for proper application and film build-up.

### **SURFACE PREPARATION**

All surfaces must be clean and free from laitance (efflorescence), dust, dirt, rust, oil and grease. Minimally, surfaces must be cleaned to remove any loose or chipped paint, or any other foreign material prior to coating.



### **COLOR**

Tinting may be achieved with Thermo-Shield® Exterior Wall Coats by the addition of universal colorants. Darker colors will give a correspondingly lower reflectivity.

### **PERCENT NON-VOLATILE**

54.41% by VOLUME / 54.85% by weight

### **THEORETICAL COVERAGE**

10.4 sm per gallon at 150 microns DFT with no loss to be applied in 2 coats  
(130 sf/gl at 6-Mills DFT)

### **DRYING TIME**

To set: 20 minutes

To re-coat: 4 hours

To through: 12 hours

At 24 Deg C (75 Deg F) and 50% relative humidity

Effective temperature range - 40 Deg C (- 40 Deg F) to 204 Deg C (400 Deg F)

### **THINNING**

None required. Clean water in small amounts of up to 0.24 Liter (1 cup) per gallon may be added to replace evaporation losses or to adjust for spray equipment configuration.

**Caution: excessive thinning will cause the coating to loose adhesion and elasticity**

### **EQUIPMENT**

Roller or airless spray application is recommended. Very small areas may be brushed. When Thermo-Shield® Exterior Wall Coats are applied by brush, three (3) coats cross-brushed are required for adequate protection.

Airless Sprayer:

Tip Orifice / .031 inches

Atomizing Pressure / 2200 - 2500 psi

Fan Spread / 60 Degrees

Pump / Minimum 1 gallon per minute at 2500 psi

Filter / Remove filters & screens

Prime pump with water before attempting to spray Thermo-Shield® Exterior Wall Coats.

Acceptable equipment includes; Binks Super Hornet, Graco 433 or larger, and many others.

### **METHODS**

To assure adequate and uniform coverage, the "spray and back roll" techniques are recommended - spray all coats in the same direction, do not cross spray to avoid showing undulations and other small imperfections in the walls. Thermo-Shield® Exterior Wall Coats should be applied in full wet coats.



### **CLEAN UP**

Clean tools and equipment with warm soapy water. Rinse with clean water; flush mineral spirits through spray equipment to prevent rusting and to lubricate packing and gaskets.

### **PACKAGING**

One and five-gallon pails. Lined 55-gallon drums.

### **APPROXIMATE SHIPPING WEIGHT**

Net weight per gallon 4.55 kg (10 lbs)  
Case of 4 1-gallon cans 19.96 kg (44 lbs)  
Five-gallon pail 23.63 kg (52 lbs)  
55-gallon drum 273.52 kg (603 lbs)

### **STORAGE**

Minimum 0 Deg C (32 Deg F) – Maximum 30 Deg C (86 Deg F) Do not freeze

### **SHELF LIFE**

Minimum 2 years (keep from freezing)

### **SETA FLASH POINT**

Non-Flammable (water based)

### **DOT CLASS**

Not regulated

### **PRODUCT CODES**

EXTERIOR WHITE: 5961 EXTERIOR WHITE TROPICAL: 5968  
EXTERIOR ACCENT BASE: 5964 EXTERIOR ACCENT BASE TROPICAL: 5969

### **WARRANTY**

15 years

#### **EXCLUSIVE REMEDY**

*The sole remedy for goods not in conformance with any warranty is replacement of the product or return of the purchase price. SPM Thermo-Shield® shall not be liable for any other damages, including, but not limited to labor expenses.*

