



CLIMATE-SHIELD® EXTERIOR EXTERIOR WALL COATING

DESCRIPTION

Climate-Shield® Exterior highly efficient, energy-saving, flexible coating, designed to insulate and waterproof exterior walls. It is non-toxic, friendly to the environment, and form a monolithic (seamless) membrane that bridges hairline cracks. The coating is completely washable and resist many harsh chemicals and dirt pick-up. Climate-Shield® Exterior coating is water-based, made from an acrylic resin system filled with vacuumed borosilicate ceramic micro spheres that act as a thermally efficient blanket. Climate-Shield® Exterior can be applied by roller or airless sprayer. Climate-Shield® Exterior puts a stop to the “frequent painting cycle” – it outlasts other paints several times over. The coating has a superb waterproofing performance, fire resistance and its adhesion increases with saturation. The coating has “variable permeability” – it becomes watertight when saturated by water and breathes away trapped water vapour when dry. It protects against UV, greatly reduces thermal shock and sound transmission, and has low VOC levels. Climate-Shield® Exterior coating comes in a variety of architectural colours and has a beautiful matt finish.

INSULATION

Reflectance 89%, Emittance 94%, Conductance 0.06 W/mK – unlike typical mass insulation where heat conduction is just slowed down, Climate-Shield® technology keeps the heat out. Sunlight only produces heat when it is absorbed by a surface. The amount of sunlight 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 light, not heat. The emittance process leaves less than 2% of the radiant energy to be absorbed into the surface as heat. The Climate-Shield® Exterior coating, although at a small thickness, has a very low conductivity value to do the rest of the insulation work.

TYPICAL USE

For painting concrete, metal, wood, polymerized surfaces and reducing condensation. Used in most climatic conditions where colour fading is a major concern. It has superb fire resistance, excellent chemical resistance to salt spray, strong acids, petroleum products and other harsh chemicals.

PRIMER

No primer is usually required; however, it is recommended over gypsum board.

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.

COLOURS

White and any custom colour available. Darker colours will give a correspondingly lower reflectivity.

THEORETICAL COVERAGE (2 Coats)

10.4 m² per gallon at 150 microns DFT (112 sf/gallon at 6 Mills DFT)

V.O.C.

0.33 lbs / gallon
39.5 grams / liter

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 lose adhesion and elasticity !!!

EQUIPMENT

Roller or airless spray application is recommended. Very small areas may be brushed. When Climate-Shield® Exterior r coating is 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 and screens

Prime pump with water before attempting to spray Climate-Shield® Exterior.

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. Climate-Shield® Exterior 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

22,7 kg / 19 l

STORAGE

Minimum 1 Deg C (33.8 Deg F) – Maximum 30 Deg C (86 Deg F).

DO NOT FREEZE

SHELF LIFE

Minimum 2 years (keep from freezing)

SETA FLASH POINT DOT CLASS

Non-Flammable (water based) Not regulated

PRODUCT WARRANTY

10 years