

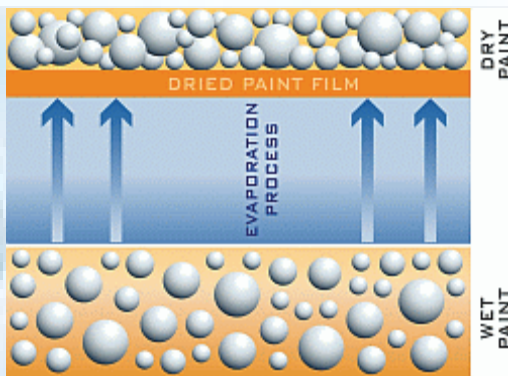
TECHNICAL DATA

TEMPCOAT

Insulating And Thermal Barrier Coating

TEMPCOAT is an awesome product to protect from heat, water and corrosion and will do a decent job for reducing structure borne noise. **TEMPCOAT** is our ceramic loaded insulation coating that is designed to keep buildings, automobiles from heat and sound. It reflects radiant heat and dissipates convectional heat while also killing structure borne noise and vibrations. It reduces internal temperatures by as much as 30% and block airborne sound waves. Because **TEMPCOAT** is water based, we loaded it with anti-corrosion chemicals to prevent rusting, as well as **flame resistant** additives that allow Firewall to self extinguish when exposed to fire. **TEMPCOAT** will help somewhat with unwanted noise in your audio system.

Ceramic Vacuum Matrix technology



Insulating ceramic materials have unique energy savings properties that reflect heat while dissipating it. The hollow ceramic microspheres thermal reflective quality performs as a radiant heat shield that rejects heat away and outwards from the protected substrate, minimizing absorption into the surface. The hotter the external environment, the more effective the performance of Metal Shield in reducing internal temperature

The ceramic particles in Metal Shield compact and interlock as the coating cures creating a tight closed matrix of the vacuum ceramic spheres. This tightly packed film reduces the path for heat, sound, air and water.

- Provide longer lasting durability
- Exceptional stain and scrub resistance
- Non-Toxic & Fire Resistant
- Helps deaden sound
- Use on Interior or Exterior



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TEMPROCOAT

APPLICATION PROCEDURE

Application can be with brush, air less spray or roller. Where exposed to the elements, do not apply membrane if rain is imminent and protect the membrane from water and damage until it has fully cured.

Apply a first coat of TC using brush, roller or spray over the prepared surface at the rate of 600 micron thickness .Let it dry (4 hours)

Horizontal Application

Apply a second coat of TC by brush, roller or spray across the direction of the rate of 600 micron thickness.

There are occasions when the use of a third application might be considered necessary. Typically this should be considered in coastal/marine environments or where excessive pedestrian traffic is anticipated. Application will be at the rate of 0.6 liter square meter. The minimum dry film thickness of the membrane should be at least 1.2mm.

REINFORCMENT (applicable at the joints and penetrations)

Apply a first coat of TC using brush, roller or spray over the prepared and surface at the rate of 500 micron thickness. Embed recommended reinforcing fabric into the wet membrane. The reinforcing must be well worked into the wet membrane to eliminate trapped air and wrinkles. Immediately apply a saturating coat at the rate of 500 micron thickness, ensuring the fabric is entirely embedded and covered.

Allow to cure. Inspect the cured surface and cut out and replace any trapped air bubbles before proceeding .The surface should be smooth with a regular profile from the embedded reinforcing and free of bubbles, wrinkles or surface defects.

Vertical Application: Apply two coats of TC at the rate of 2 to 3 square meter per liter per coat. The minimum dry film thickness should be at least 500 microns. The crack bridging properties of the coating is dependent upon the cured thickness and additional coats may be required over doubtful areas.

Coverage:

The stated average coverage rate may vary depending upon type, condition, porosity, texture of the surface and application technique

Reinforced: The total combined use of TC should be a minimum of 2 liters per square meter

Un re in forced (horizontal): The total combined use of TC should be at least 1.0litres per square meter

Walls (vertical): The total combined use of TC should be at least 1.0 liters per square meter

Drying and Curing:

Drying and curing of the product is affected by type, dryness and porosity of the surface, temperature, humidity, ventilation, climate conditions and application technique and therefore drying and curing can only be given as a guide.

At 25C and 50% RH (per coat) Touch dry: 2 to 6 hours Set: 6 to 12 hours Full cure: 24 to 36 hours Service Temperature: 10C to 50C Application Temperature: 5C to 30C

