



OPTIMIZE™
COATINGS

OPTY-SOLAR SHIELD®
THERMAL COATING

Energy Saving/
Corrosion Protection

OPTY-Solar Shield® is a spray applied Thermal Barrier which, in its simplest definition, could be described as an “energy saving paint”. When dry, OPTY-Solar Shield looks just like flat latex paint, yet conserves energy. **Technically, OPTY-Solar Shield is a high performance Thermal Barrier which incorporates ceramic technology to prevent the transfer of heat and cold.** Optimize coatings uses OPTY-Solar Shield in our KW Guard coating applications on HVAC cabinets.

OPTY-Solar Shield:

- MAS Green Certified: Passes California Indoor Air Quality Standards for both classrooms and offices. DHS - 01350
- UL® Classified Product: 0 (zero) flame spread and smoke development of 5 (UL-723 Test)
- Virtually no VOC's (0.0099 lbs/gal). Water-based latex acrylic formulation that is friendly to environments inside and out.
- Lightweight: 5 pounds per gallon (<2.5 kilos per 3.75 liters) in its wet stage.
- OPTY-Solar Shield is a breathable vapor barrier, as well as an air and water barrier.
- Helps seal the envelope of any structure, making it a unique and effective thermal envelope.
- Can be used for cryogenic applications and, with special training, can be applied to surfaces as hot as 300°F.
- ISO Registered Firm 9001:2008
- Cool Roofs Rating Council (CRRCC)-rated product
- Self Priming: Product contains built-in rust/corrosion inhibitors for self-priming, unless harsh or large areas of rust are present.
- Reduces expansion and contraction on metal buildings, thus minimizing leaks.
- Reduces or eliminates condensation
- Low shrinkage
- High solar reflectance
- High emittance
- Low dry fall rate
- Foam encapsulator / UV blocker
- Max white brightness. Tintable.

OPTY-Solar Shield® can also be used to help seal the “envelope” of any residential or commercial structure, thereby reducing to a minimum the loss of energy through the structure. Apply OPTY-Solar Shield on roofs (including existing or asphalt shingles) to repel the sun's radiant energy and dramatically lower the roof and attic temperature, and decrease the heat-island effect of dark roofs. Add OPTY-Solar Shield to both interior and exterior building walls to improve the building's “sealant” quotient, reduce and/or eliminate thermal bridges and enhance the effectiveness of base load insulation. Insulate any exposed piping (geothermal hydronic copper infrastructure) to keep heat in, ensure protection from over-exposure and eliminate condensation.

Apply OPTY-Solar Shield for HVAC Cabinet Coating, and more:

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| • Modular Classrooms | • Steel | • Cars / trucks / busses |
| • Mobile Homes | • Wood | • Glass, skylights |
| • Primer/topcoat on sheetrock | • Storage tanks | • Steel beams & framing |
| • Plastic | • Silos | • Railroad cars |
| • Concrete | • R/V & camper tops | • Boat interior hulls |
| • Steel containers | | |

Use for the control of corrosion, condensation, heat retention and to reduce or eliminate heat/cold transmission (thermal bridging) to interiors. **Anywhere heat or cold presents a problem, OPTY-Solar Shield is the solution.**

