

EPOX-Z NRG™ COATINGS TECHNICAL BULLETIN

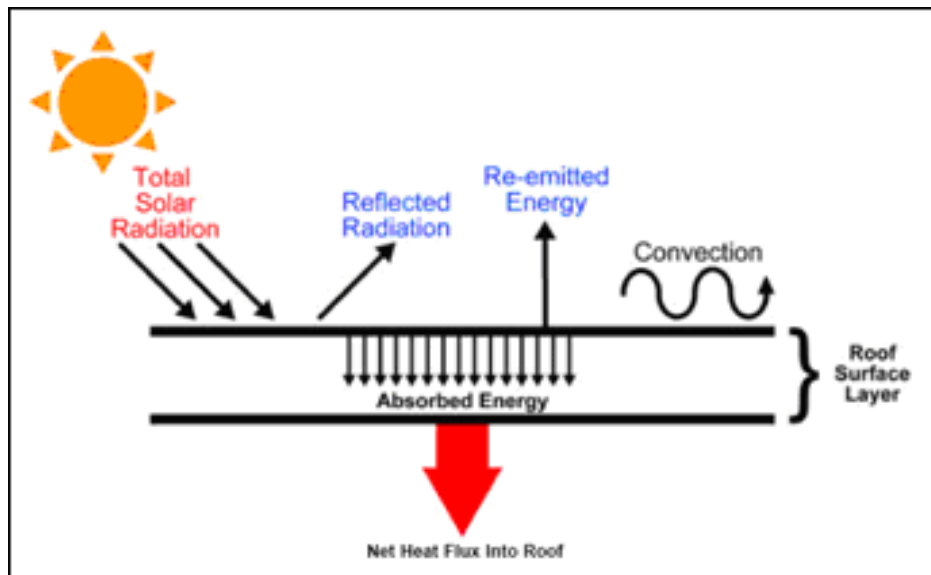
Cooler roof surface temperatures mean less heat is transferred to the building below. Less heat in the building means it's cooler and more comfortable in the summer since indoor and ceiling temperatures are lower.

Cool coating systems can also save cooling energy. Monitoring of more than 10 actual buildings in California and Florida with cool roofing has shown 20% to 70% reductions in cooling energy use. Cooling energy savings vary from building to building due to differences in roof insulation, building configuration, cooling loads, cooling system equipment, the local climate, and other variables. But your cooling needs are always decreased by using a cool coating on your roof.

There are two properties of cool roof coatings that keep roof surfaces cool in the sun:

- 🌿 **High reflectivity** to reflect away the sun's energy instead of absorbing it
- 🌿 **High emissivity** to radiate away any energy coatings do absorb

The graphic shows how these properties work together to keep buildings cooler.



Cool coatings have solar reflectivities of 60-75%, while conventional roofing materials have reflectivities of only 5-25%.

EPOX-Z NRG™ is a 100% solids, **ZEROVOC**, solventless coating which overcomes the single greatest disadvantage of the other coatings used in the repairs of roof systems—traditional coatings must allow the water or solvent to evaporate in order for the coating to dry. This

drying process produces stress on the coating and can lead to curling or cracking at the edges or over seams.

EPOX-Z NRG's proprietary formulation produces a true chemical cure. This eliminates shrinkage and promotes superior adhesion over the roof surface while retaining the flexibility needed during the freeze/ thaw cycle.

Other characteristics include:

- 🌿 surface tolerance and self-priming features allow single-coat application
- 🌿 less coating loss due to over-spraying during application
- 🌿 no coating volume losses due to solvent or water evaporation
- 🌿 no special VOC containment equipment required
- 🌿 high-build characteristics reduce labor costs
- 🌿 no special spray or heating equipment needed
- 🌿 cost effective because its installed cost is 1/3 that of elastomeric coatings
- 🌿 High reflectivity .80
- 🌿 High emissivity .90
- 🌿 SRI 100



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