Nucor Building Systems
Insulated Panels Cool Coatings

These "cool" exterior coatings feature vivid, fade-resistant color, incredible durability and environmentally friendly cool technology originally developed for stealth aircraft in the U.S. military. This is by far the best paint system available on the market for commercial buildings.

Exterior Colors - PVDF *These colors utilize Cool Coating Technology*

Regal White IR .72 SRI 88

Warm White IR .64 SRI 76

Surrey Beige IR .50 SRI 56

Pearl Gray IR .47 SRI 54

Royal Blue IR .30 SRI 30

Cypress Green IR .31 SRI 31

IR = Initial Reflectance • SRI = Solar Reflectance Index

AdobeTexture™ Wall Panels

Regal White

Sandstone

Surrey Beige

Pearl Gray

Interior Color - Polyester

Imperial White

NOTE: When using field applied coatings always order Imperial White Polyester for the exterior coating.

Colors shown closely approximate actual coating colors.

Reflectance, Thermal Emittance and Solar Reflectance Index (SRI)

Cool science isn't just a meaningless marketing term. It's a technology that is literally revolutionizing the building industry. Combating urban heat islands and high-energy consumption will require innovative products that meet or exceed even the most stringent industry requirements. Our insulated panel is that type of product.

Just think, the more energy costs rise, the more money you save with Nucor Building Systems.

Solar Reflectance (IR)

To be considered "cool," products must have a Solar Reflectance of at least .25. Solar Reflectance is the fraction of the total solar energy that is reflected away from a surface.

Thermal Emittance (IE)

Thermal Emittance is the measure of a panel's ability to release heat that it has absorbed.

Solar Reflectance Index (SRI)

Put Solar Reflectance and Thermal Emittance together and you get the Solar Reflectance Index (SRI). SRI is calculated by using the values of solar reflectance, thermal emittance and a medium wind coefficient. The higher the SRI value, the lower its surface temperature and its heat gain into the building. Cool metal roofs coated with the COOL-pigmented PVDF resin achieve an SRI of 29-86, depending on the color.

Conventional roof surfaces have low reflectance (0.05 to 0.25) and high thermal emittance (typically over .85). Roof panels with both high reflectance and high emittance can reduce the surface temperature by as much as 30-50% based on color and geographic location, which will result in a reduced heat gain to the building, therefore reducing energy demand.

Color	Solar Reflectance	Thermal Emmitance	SRI
Regal White	0.72	0.85	88
Warm White	0.64	0.86	76
Surrey Beige	0.50	0.85	56
Pearl Gray	0.47	0.86	54
Royal Blue	0.30	0.85	30
Cypress Green	0.31	0.85	31

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