

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 87



Warm White IR .59 SRI 70



Surrey Beige IR .51 SRI 58



Pearl Gray IR .50 SRI 57



Royal Blue IR .29 SRI 29



Cypress Green IR .30 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.

NBS - Indiana
260.837.7891

NBS - NE Sales Office
717.735.7766

NBS - South Carolina
803.568.2100

NBS - Texas
972.524.5407

NBS - Utah
435.919.3100

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Reflectance, Thermal Emittance and Solar Reflectance Index (SRI)

Solar Reflectance

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

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 29-87, 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	Initial Solar Reflectance (IR)	Thermal Emittance (IE)	Solar Reflectance Index (SRI)
Regal White	.72	0.86	87
Warm White	.59	0.88	70
Surrey Beige	.51	0.86	58
Pearl Gray	.50	0.87	57
Cypress Green	.30	0.87	31
Royal Blue	.29	0.85	29

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.



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