



“BACK SIDE” SURFACE TEMPERATURES
of VARIOUS COLORS and ROOFING SYSTEMS
 (compared to NATIONWIDE’s CERAMIC COATINGS)

CONDITIONS: Central Texas, Month of August, Ambient Temperature of 90 Degrees Fahrenheit, Clear Sky

Fahrenheit Degrees

80 90 100 110 120 130 140 150 160 170 180 190 200



*Added to show the comparison of NATIONWIDE’s INSULATING CERAMIC COATINGS to the test data.

Table 1 - “Back Side” Temperatures of Various Roofing Systems

“Tests were conducted to determine the effect of colors on the temperature of a roof system. Coatings were applied over 2” of polyurethane foam. Small thermocouple were embedded in or under the coating material. The above graph shows the difference between colored coatings and other roofing materials when exposed to sunlight.

The above numbers were measured in central Texas with an ambient temperature of 90 degrees Fahrenheit. Higher altitudes or ambient temperatures above 90 degrees Fahrenheit will result in even hotter surface temperatures than those measured.

From the above graph it may be seen that even light colored coatings raise the temperature somewhat. Shiny aluminum foil reflects sunlight very well although not as well as a white coating. Unfortunately, aluminum-filled coatings by contrast are good absorbers of solar energy. Aluminum coatings and galvanized metal both exceeded 170 degrees Fahrenheit in these tests.”

-National Coatings Corporation
 Camarillo, CA