

HUNTSMAN

Enriching lives through innovation

Infrared reflection
Altiris[®] 800 pigment



altiris[®]

infrared reflecting pigments

For a wide range of colors...

ALTIRIS® infrared reflecting pigments can increase the solar reflection for a wide range of colored coating and polymer systems. Increased solar reflection keeps surfaces cooler and can help to reduce the internal temperatures of buildings.

Increased solar reflectance benefits:

- Lower interior temperatures improve internal comfort for occupants, placing less load on air-conditioning systems thereby reducing their use, associated costs and greenhouse gases
- Reducing the power required for air-conditioning reduces the need for energy
- In built-up areas cool surfaces can reduce the effect of urban heat islands
- Reflecting the solar energy from surfaces can help prevent degradation caused by thermal cycling and heat build-up

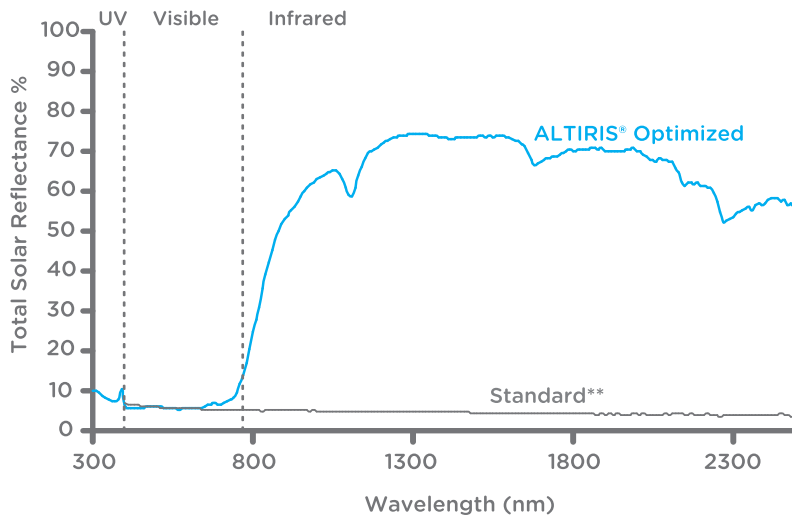
ALTIRIS® 800 pigment can be used in a single colored layer to bring increased solar reflection for bright, vibrant and dark colors. To further enhance solar reflectance ALTIRIS® 550 pigment can be used in a primer layer.

...across the color spectrum

ALTIRIS® 800 pigment has been designed to have a combination of high infrared reflection and low tint reduction making it suitable for use in dark and vibrant colors.

Signal black optimization

Huntsman has optimized the total solar reflectance (TSR) for RAL 9004*, signal black, using ALTIRIS® 800 pigment from a standard** coating at 5% TSR to 31% TSR. In this example the TSR has been increased by 26 points.



* Actual coatings are similar to RAL color quoted, coating thicknesses approx 20 microns, measurements taken using Cary 5000 spectrophotometer

** Standard coating containing TIOXIDE® pigment and colored pigment - formulations available on request

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To find out more, please contact

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