

ROOFING SOLUTIONS THAT COOL, WATERPROOF AND RESTORE

SAVE ENERGY

According to the EPA, about \$40 billion is spent annually in the United States to air condition buildings – one-sixth of all electricity generated in a year! **ENERGY STAR**® qualified roof products reduce the amount of heat transferred into the building by reflecting the sun's rays. As a result, the white reflective roof surface reduces the amount of air conditioning needed to cool a building and can reduce energy bills by up to 50%. (www.energystar.gov)



Our complete line of coating and single ply restoration solutions are Energy Star approved by the EPA. This designation indicates that a roof coating or single ply system from Republic offers reflectivity that can provide added energy savings for your building.

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INCREASE THE SERVICE LIFE OF YOUR ROOF SYSTEM

The UV rays and heat from the sun can damage and result in premature aging to a roof system. These rays can cause temperatures to easily reach 170°F in the heat of the day on a black roof compared to a white roof surface that only reaches 110°F. When the roof system heats up, its properties – asphalt, polymers, etc.– react and can cause the roof system to crack and become brittle.

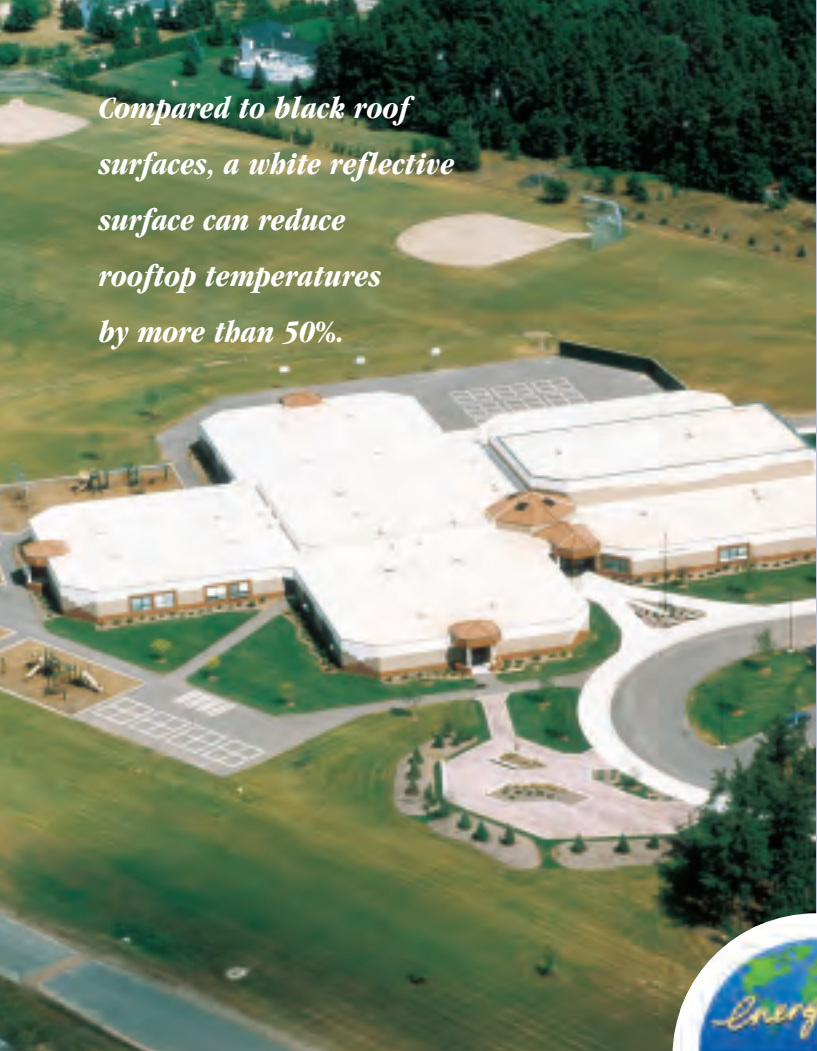
Reflective roof surfaces reduce this extreme heating and cooling process of the roofing system extending the roof's life cycle. In addition, many reflective roof coatings also serve as a waterproofing layer that gives an existing roof new life.

SAVE THE WORLD

(Or at least your little corner of the world)

While saving the world is a large task, reflective roof surfaces can help to reduce the **Urban Heat Island Index**, a term used to describe the increase in temperatures in largely populated areas due to the lack of trees and vegetation and an increase in dark surfaces, such as roofs and asphalt parking lots that hold heat. Reducing the Urban Heat Island Index in your little corner of the world may help to reduce smog and temperatures, which in turn may result in reducing your cooling costs.

Compared to black roof surfaces, a white reflective surface can reduce rooftop temperatures by more than 50%.



REPUBLIC'S ENERGY STAR PRODUCTS

RESTORATION COATING SYSTEMS

Alumanation 301® Aluminum Roof Coating System
For metal, modified bitumen and built-up roof systems

Geogard® Urethane Roof Coating System
For weathered single ply, modified bitumen and built-up roof systems

Solargard® Acrylic Roof Coating Systems
For metal, weathered single ply, modified bitumen and built-up roof systems

SINGLE PLY ROOFING SYSTEMS

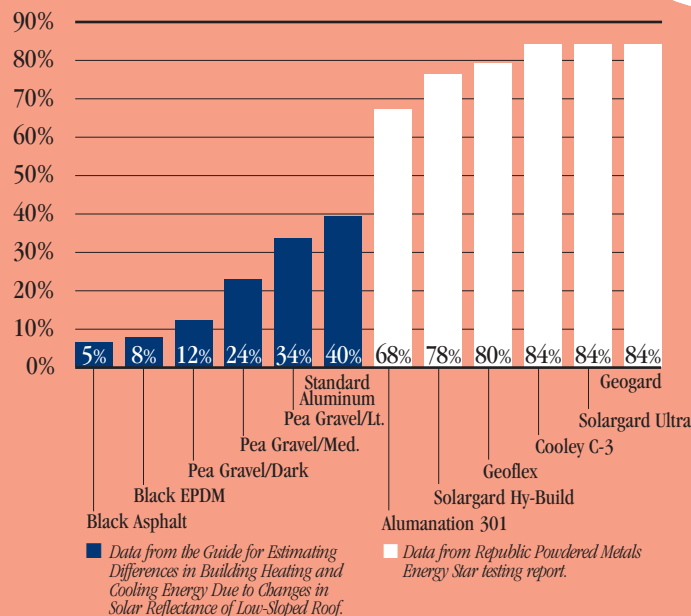
Geoflex PIB® A polyisobutylene single ply membrane
For new construction, retrofit and recover

Cooley C3® A PVC-blended Elvaloy® single ply membrane
For new construction, retrofit and recover

A variety of warranties from 5 to 20 years, depending on substrate and restoration system, are available.



SOLAR REFLECTANCE OF ROOFING MATERIALS



To qualify for an **Energy Star** designation, Republic's roofing products on low-slope applications have met or exceeded the EPA standard of 65% initial reflectivity and 50% reflectivity for three years. Steep slope roofs must have an initial reflectivity of 25% and 15% after three years.

To learn more about Energy Star, check out www.energystar.gov.

Republic Powdered Metals, Inc., an ISO 9001 company, provides products and services for roof and wall restoration. Republic products provide long-term performance and energy savings to ensure that customers have the right solution to meet their specific restoration needs. Republic Powdered Metals, the founding company of RPM, Inc., has been a leader in the roof coating and restoration industry since 1947.



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