

It's time to reflect!



It's time to be cool.

The New Generation of Cool Surfaces



Sunlight heats up colored surfaces

- **Roofs and walls of structures heat-up**
 - Internal temperatures rise
 - Air-conditioning loads increase
 - Higher energy usage
 - More CO₂ and greenhouse gas emissions
 - Buildings with no air-conditioning are uncomfortable
 - Liquids contained in vessels can evaporate
- **Exterior colored polymers become hot**
 - Polymers can warp
 - Clothing and seating are uncomfortable



The best way to keep cool is to reflect the heat!

Introducing Solar Reflectance

- **The Sun's energy has 3 components:**

- **Ultraviolet**

- Can be damaging

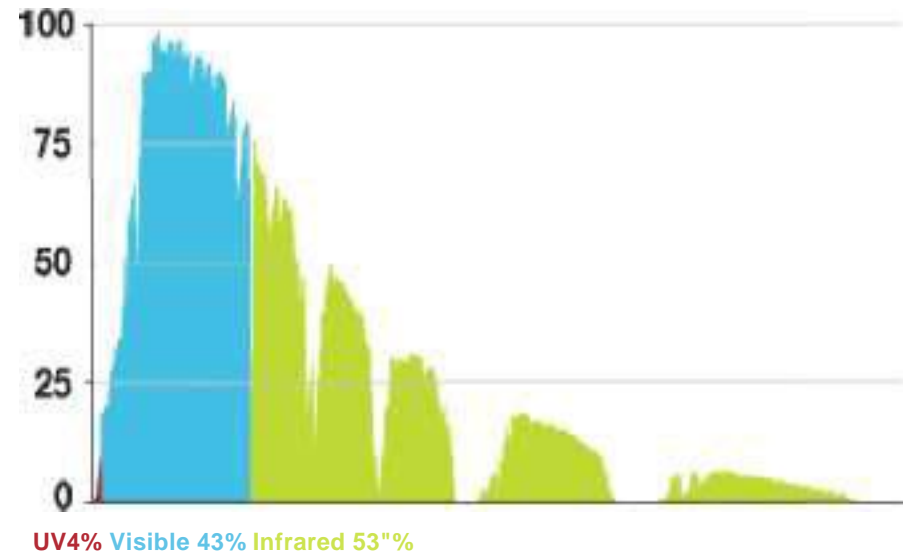
- **Visible**

- Produces the colors we see

- **Infrared**

- Causes most of the heating effect
- Invisible to human eye

Solar Intensity



Dark colors absorb more of the Sun's energy

Low Solar Absorption Coatings

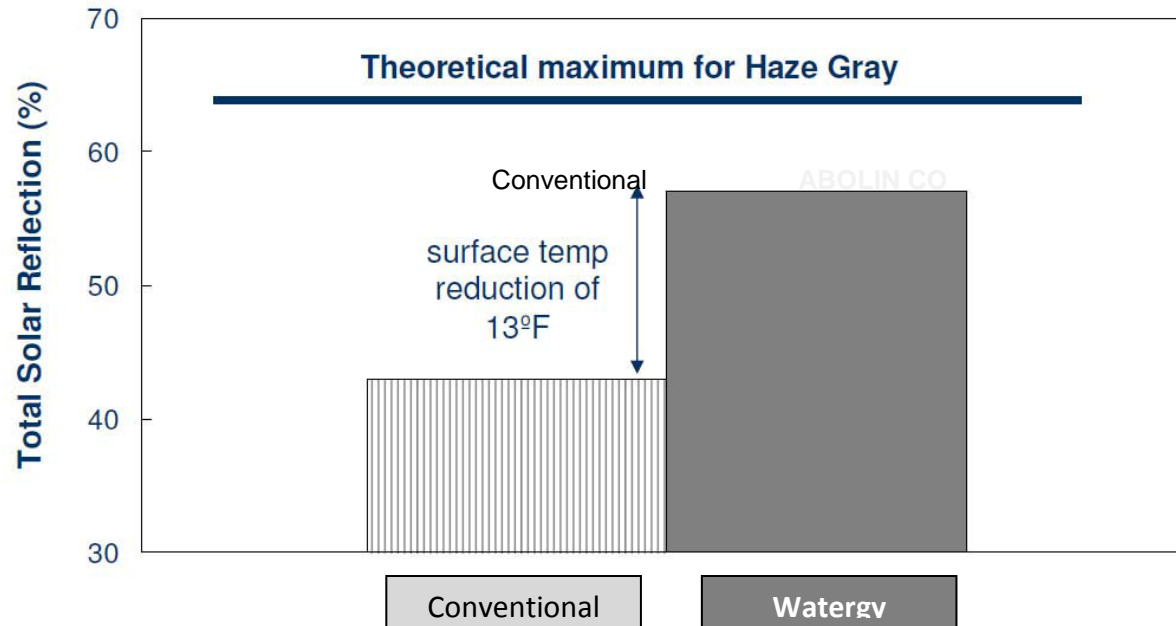
Watergy International Group technology can increase solar reflection in a wide range of military coatings, easily meeting the USA military specification reflectance levels at 800nm and 1000nm

Benefits of low solar absorption coatings include:

- Significant surface temperature reductions
- Lower internal temperatures
- Reduced overall energy usage and associated energy costs
- Lower greenhouse gas emissions

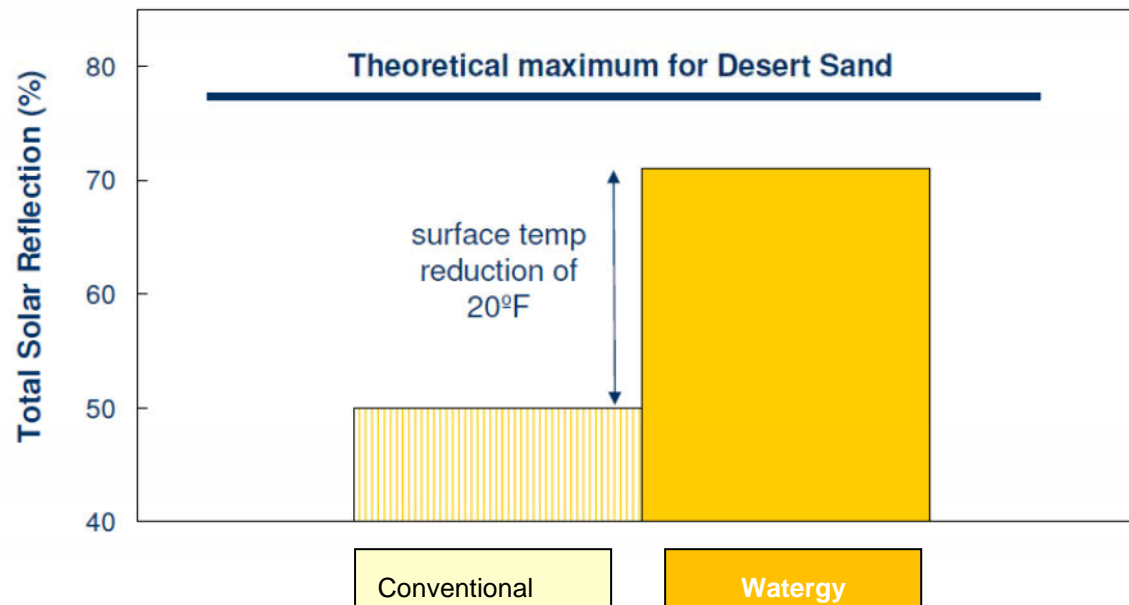


FED STD 595-26270 'HAZE GRAY'



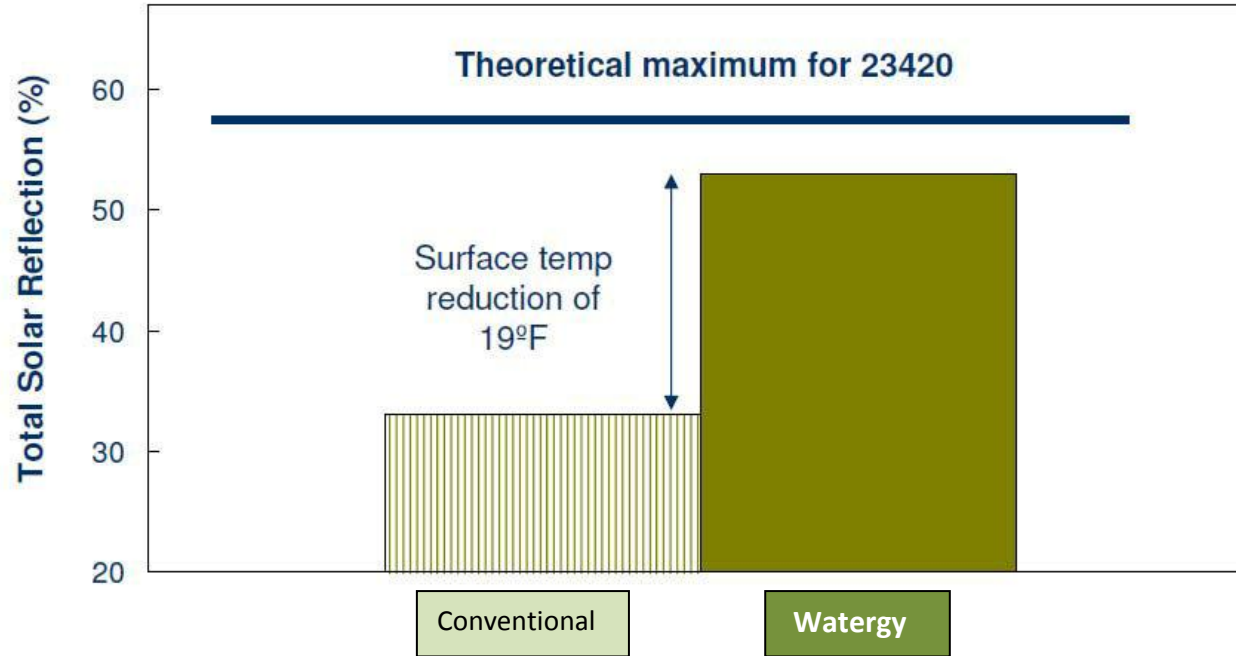
	Conventional	Abolin	Theoretical Maximum
TSR %	43	57	65
Surface Temp °F	147	134	127

FED STD 595-30315 'DESERT SAND'



	Conventional	Watergy	Theoretical Maximum
TSR %	50	71	78
Surface Temp °F	141	121	114

FED STD 595-23420 'Khaki'



	Conventional	Abolin	Theoretical Maximum
TSR %	33	53	58
Surface Temp °F	159	140	135

Surface temperature values attained using calculator based on ASTM E1980, these temperature differentials are indications of the surface temperature changes that could be expected in a temperate region of the world

Watergy Coatings More Benefits...



Reducing 'jet burn' on ships

- enhance the reflectance of the radiant energy from jet flames



Reducing radiative transfer of fire

- reflect longer wavelength infrared energy radiated from flames



Watergy International Group , High Solar Reflective technology is not limited to Colours, Applications and Coating Systems.

Ask for more information about our materials....

It's time to be cool..

www.watergyinternational.com



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