



# concrete solutions for traffic safety

**Security and savings**

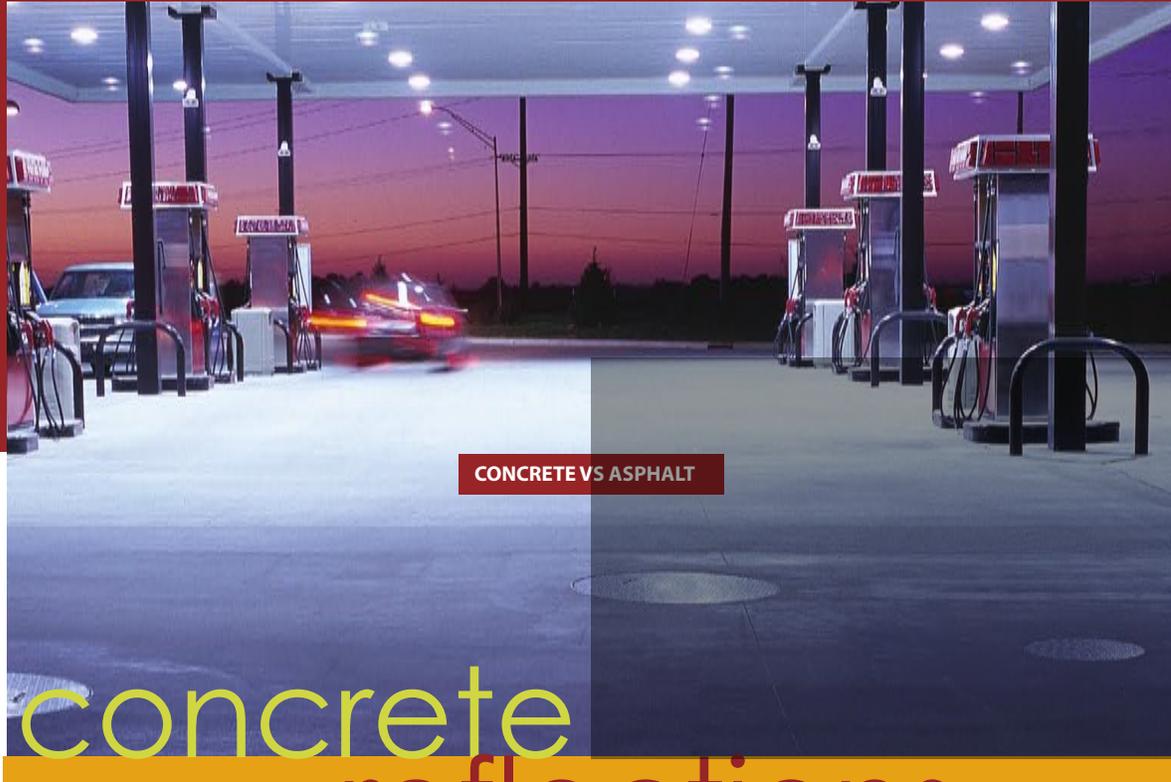
**are hallmarks of concrete roadways**

**and parking areas.**



# paving for safety

For many years, concrete has been the choice of decision-makers for its durability and long life. Today the trend is to also choose concrete for its light reflection, a quality that adds a good measure of safety to the paving equation. Whether you are building a high-speed highway or parking area, you want concrete. Its light color and economic cost make concrete the optimum choice for paving material.



CONCRETE VS ASPHALT

## concrete reflections

Concrete sets the safety standard for paving material. Its color and composition reflect more light than other pavement. In fact, studies indicate that surface reflectance readings on concrete are four to five times higher than asphalt.

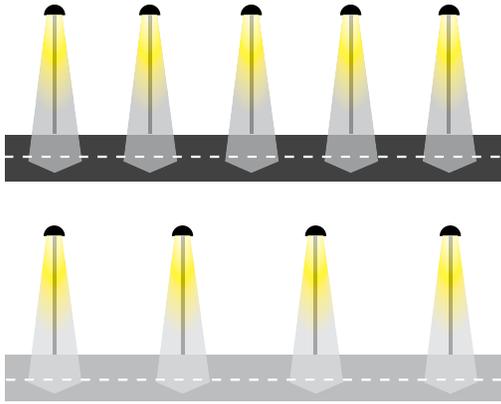
When pavement is more reflective, the result is a brighter, more secure environment on roads and in parking areas. The better the pavement's reflective quality, the clearer to see – the road, other vehicles, and pedestrians.

Appropriately lighted concrete streets and parking areas not only provide personal safety, but help reduce vandalism and traffic accidents. Evening shoppers are much more likely to stop at a store with a well-illuminated parking area, certainly a competitive edge for businesses.

# concrete savings

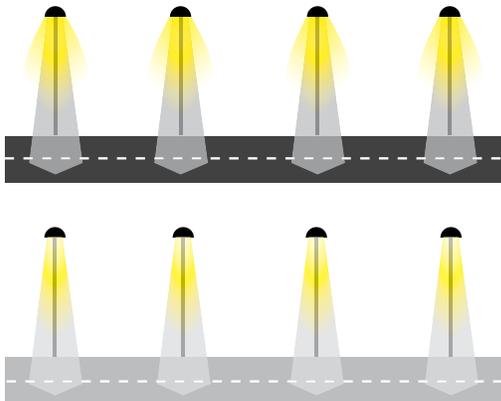
## 24% Fewer Light Poles

To light one mile of asphalt it takes 24% more poles – and 24% more in costs – than to light one mile of concrete.



## 33% Less Wattage

To light one mile of asphalt it takes 200 watt bulbs compared to 150 watt bulbs to light one mile of concrete.



Concrete is good for the environment and the budget. Its powerful reflective qualities mean fewer fixtures are necessary to light a concrete pavement, which translates to energy efficiency and lower cost.

In a recent bulletin, the American Concrete Pavement Association (ACPA) reports that asphalt must make up for its lack of light reflectance with more street lights per mile or higher watt bulbs in the same number of poles on a concrete road.

An illustration in the ACPA bulletin compares a concrete highway that requires 250 watts of light every 210 feet to an asphalt roadway which needs the same wattage every 170 feet. In this case, asphalt requires 24 percent more poles with energy costs that are 24 percent higher.

## Green Concrete

Besides its energy saving attributes, concrete is also environment friendly. Concrete is made from natural lowa materials – sand, rock, and water. Asphalt is petroleum-based. Concrete producers are recycling, using byproducts from electric and steel plants and also crushing and re-using old concrete.

# concrete resources

Whether you are developing a new project or updating an existing road or parking area, we can help. The Concrete Information Alliance is an independent organization that provides information and expertise to discuss alternatives, review specific projects, and furnish budget estimates for building roadways and parking areas.

Call us at 515.963.0606. Send us an e-mail at [info@concreteinfoalliance.com](mailto:info@concreteinfoalliance.com). Or, come and visit.





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