

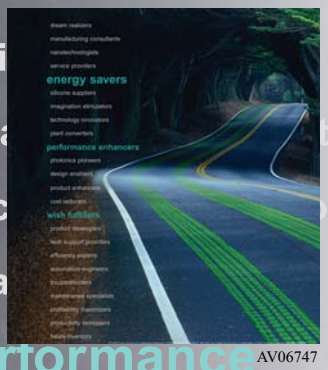
dream realizers  
service providers  
efficiency experts  
silicone suppliers  
**energy  
savers**

silicon  
imag  
tec  
pla  
**performance  
enhancers**

photonics pioneers  
design enablers  
product enhancers  
cost reducers

**wish  
fulfillers**

product developers  
tech support providers  
efficiency experts  
automation engineers  
troubleshooters  
maintenance specialists  
profitability maximizers  
productivity increasers  
future inventors



## Innovative Solutions

# Silicone technology makes life brighter for Indian two-wheeler automotive riders

## Silicone solutions from Dow Corning enable manufacturers to focus on safety as well as aesthetics

Dow Corning has introduced a silicone sealant that will help make the future brighter and safer for the eight million riders of two wheelers in India. The new two-component sealant is used in headlight and taillight assembly, enabling Indian automotive manufacturers to greatly enhance the stability, safety and design aspects of these vehicles.

The Dow Corning sealant has high resistance to heat and excellent durability – which allows manufacturers to use higher-density bulbs in headlamp assembly – these new bulbs offer higher brightness and have an enhanced life-span, thus providing efficiency as well as a safety benefit for the end-customer.

The two component sealant also overcomes many of the disadvantages of the organic hot melt sealants that a number of manufacturers use currently, such as low temperature resistance, poor weatherability, low vibration resistance and high volatile content.

### The benefits of silicones

Dow Corning points to several benefits of the two-component sealant including:

- Durability: The two-component silicone sealant demonstrates a higher resistance to water, and does not break down at high temperatures – a characteristic that’s especially important in India, where variations in climate often pose a challenge.
- Anti-fogging: Since the two-component sealant does not contain any volatile compounds, it offers 100% anti-fogging capability, thus ensuring optimal light intensity.
- Adhesion: Its excellent adhesion to a wide range of substrates, such as metal, wood, painted surfaces and glass as well as many plastics, enables designers to bring to reality their more imaginative design improvements.
- Quick curing: The rapid curing time of the two-component silicone sealant means that assembled parts do not require long storage while the sealant cures. This allows manufacturers to minimize delivery time, and also helps free up much-needed warehousing space.

“Given the size of the two-wheeler market (more than eight million units produced



in 2007-08 alone) and the high levels of competition, manufacturers in India are seeking to differentiate their products by offering higher levels of safety features and design aesthetics,” commented Arvind Jayaram, Dow Corning's automotive industry manager in India. “Newer materials such as silicones allow manufacturers to explore new applications as well as improve on existing ones. Silicones offer excellent thermal stability, mechanical and corrosive resistance, and are highly compatible with other materials. These properties give silicone-based materials the ability to meet challenges ranging from mechanical to aesthetic.”

“Silicone sealants are increasingly being used in headlight and taillight assembly in four-wheelers as well. Designers and engineers in India and around the world continue to rely on us for automotive products and solutions that add safety, dependability, and value to the industry.” added Arvind.

## About Dow Corning

Dow Corning (www.dowcorning.com) provides performance-enhancing solutions to serve the diverse needs of more than 25,000 customers worldwide. A global leader in silicones, silicon-based technology and innovation, Dow Corning offers more than 7,000 products and services via the company's Dow Corning® and XIAMETER® brands.

Dow Corning is a joint venture equally owned by The Dow Chemical Company and Corning Incorporated. More than half of Dow Corning's annual sales are outside the United States.

## About Dow Corning in India

In India, Dow Corning (www.dowcorning.com/india) is one of the fastest growing specialty chemical companies. From our office in Mumbai and our manufacturing facility in Pune, we serve customers across India and South Asia. Our Application & Engineering Technical Services laboratory enables collaboration with Indian customers to provide solutions that are new to, or customized for India.

Dow Corning in India offers innovative solutions and products to industries as diverse as automotive, textiles, construction, beauty & personal care,

industrial lubrication, electronics and many others.

## Contact us

To find out how Dow Corning can help your business, phone your nearest Customer Service Specialist - their details are on our website

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Or e-mail us at **[india.query@dowcorning.com](mailto:india.query@dowcorning.com)**.



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