

## SO, WHAT IS GRAPHENE?

Graphene is a single layer of graphite, one atom thick. A carbon-based nanoparticle, graphene is arranged in a honeycomb structure. This very thin substance is often referred to as the “miracle material”, being the lightest and strongest material known. “It’s harder than diamond and 200x tougher than steel”, yet it is flexible which makes it a great addition to the automotive cleaning and coating world.

And why is it the new “buzz” for vehicle coatings?

## It’s all the buzz!



Because of its honeycomb structure and chemistry, graphene-infused Carbonite has a very high water contact angle (125°), a measure of wettability of a solid, compared to most coatings currently being applied. As a result, any moisture, like rainwater, will easily slide off thereby leaving minimal risk of any water evaporating on the surface and resulting in water spots. These water spots will etch into the coating and eventually into the paint finish.



Because of its diamond-like strength, graphene-infused Carbonite has a very high abrasion resistance. Simoniz® Carbonite will protect the surface from fine marks, swirls and scratches.

Its strength also makes it a barrier since no chemical or material can penetrate its structure. And as a surface hardener, it is very effective in reducing microbial induced corrosion. Since water molecules cannot penetrate graphene, it provides excellent anti-corrosion protection for your vehicle.



Also, our graphene-infused Carbonite is known for its thermal and electrical conductivity. Because of this property it can safely be described as “anti-static”. For a vehicle, this means its coating will repel dust and other micro-particles, which is a real concern for most vehicle owners.

**Graphene...**  
**“It’s harder than diamond  
and 200x tougher than steel.”**

And last but certainly not least, graphene-infused Simoniz® Carbonite enhances the appearance of your vehicle by leaving a glossy, shiny and wet durable finish.