This graphic represents a “magnified” cross section of untreated glass prior to any protective coating.

Untreated glass with microscopic ridges and valleys.

This graphic is the same cross section after the first step of Diamon-Fusion® is applied.

Treated glass after the 1st step of the process with microscopic ridges and valleys filled in.

The reaction causes a “cross-linked” and “branched” silicone film to be grown from below the surface out; filling in the microscopic indentations and creating a “covalent” bond with the glass.

This graphic shows the complete Diamon-Fusion® patented “cross-linked, branched and capped” silicone film with its superior durability.

Treated glass after the 2nd “capping” step of the process.

A 2nd specifically formulated chemical solution is introduced to the surface and “caps” the entire chain. This dramatically increased the hydrophobicity and durability, leaving, chemically speaking, no points of attachment for contaminants and creating a truly repellent surface.

Diamon-Fusion’s covalent bonds are approximately ten times stronger than hydrogen bridge bonds and much more plentiful.

This graphic demonstrates competitive protective coatings that lay on top of the surface with far less durability than Diamon-Fusion®.

Most of our competitors treatments have hydrogen bridge bonds that do not occur below the surface.

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