

Donwood Glass-Shield

Glass treated with Glass-Shield is a higher quality of glass with exceptional visibility, sparkling appearance and ease of cleaning. Working like 'non-stick' cookware, Glass-Shield glass is always much easier to clean, is low maintenance, on average reducing cleaning frequency by half and resists staining discolouration.

Just as unprotected metal can rust, so can the surface of unprotected glass deteriorate. This deterioration adds costs for glass renovation and cleaning, creates spoilt appearance of glass and dissatisfies customers. The coating is applied to the double glazed unit during the production process and is ready for despatch soon afterwards. Glass-Shield can also be applied to all other glass products that Donwood manufactures such as glass worktops, balustrades and sandblasted goods.

Glass-Shield provides valuable protection from chemical damage before, during and after construction. A simple and economical after care programme keeps Glass-Shield glass looking and performing like new, preventing loss of appearance.

Performance

Harnessing the power of nanotechnology research and development, Glass-Shield delivers the ultimate performance through an ability to develop strong but inert chemical bonds with the glass effectively becoming an integral part of the surface.

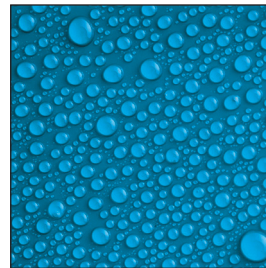
Benefits

- The surface quality is preserved or restored to its original state, becoming highly water repellent.
- Air and waterborne contamination is unable to adhere to the glass.
- Cleaning becomes much easier and less frequent – required 50-70% less often.
- The surface remains sparkling and will not discolour.

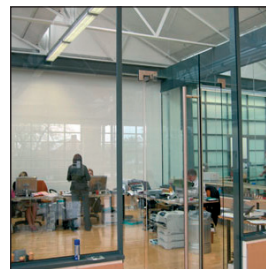
For further information on Donwood Glass-Shield and how it may be of benefit to your glass requirements, be it for internal or external use, please feel free to contact a member of the team at the details given opposite.

Structure

Ethanol-based Glass-Shield is made up of silicon dioxide molecules whose surface energy is modified by anti-bonding molecules. On application to the glass, silicon dioxide molecules from the coating and the glass surface start to bond together, releasing the anti-bonding molecules. These molecules migrate to the surface creating an ultra-smooth, protective outer layer, and changing the status of the glass from high to low energy. This low-energy status is fundamental to the repellent qualities offered by treated glass.



As the silicon dioxide molecules in Glass-Shield bond seamlessly with those in the glass, the anti-bonding molecules form a highly protective surface layer, repelling water and contaminants.



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