

ultimate surface protection

signo
SURFACE PROTECTION TECHNOLOGY

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Safeguarding the appearance and integrity of new glass, other vitreous surfaces and even textiles against the elements, pollution and deliberate or accidental damage is no longer an intractable problem.

Signo surface protection technology specialists offer a range of innovative, single-application products that provide durable protection for many exterior and interior surfaces, preserving the original outward appearance and significantly reducing the perpetual maintenance costs.

APPLICATIONS

The Signo range of products provides surface protection solutions in the complete array of hostile environments or where surfaces are vulnerable to damage through:

- Chemical attack during construction, or from traffic and industrial pollution
- Etching from rust and electrostatic particles
- Eroding effects of weather, sea salt and humid climatic conditions
- Particulate build-up in rough surface structures that are then exposed to fluctuating atmospheric conditions
- Oleaginous attack from oil, grease and fats
- Solvent-based attack during vandalism.

SURFACE PROTECTION

Harnessing the power of nanotechnology research and development, the Signo range of products delivers the ultimate performance through an ability to develop strong but inert chemical bonds with the underlying substrate – effectively becoming an integral part of the surface.

Once applied, a protective layer less than 100-nm thick (80,000 times thinner than a human hair) bonds permanently with the substrate to leave a smooth, anti-stain, non-discolouring surface layer.



The coatings are crystal clear, UV stable, chemically inert and extremely durable, having both hydrophobic and oleophobic capabilities. They will not peel or flake and are unaffected by extremes of temperatures from -20°C to $+350^{\circ}\text{C}$.

STRUCTURE

Signo products are made up of silicon dioxide molecules whose surface energy is modified by anti-bonding molecules. On application to the treatment substrate, molecules from the coating and the substrate 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 treated substrate from high to low energy. This low-energy status is fundamental to the repellent qualities offered by our products.





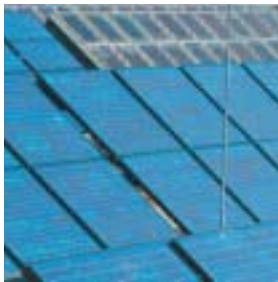
BENEFITS

- The surface quality is preserved or restored to its original state, becoming highly water repellent.
- Air and waterborne contaminants are unable to adhere to the surface.
- Cleaning becomes much easier and less frequent – typically required 50–70% less often.
- Surface discolouration and weathering is inhibited.

TREATMENT METHODS

Applied by surface spraying onto deep-cleaned surfaces, Signo surface protection technology products are flexible in their handling and can be applied almost anywhere: on site, at manufacturing premises or in a dedicated application centre.

Signo products can be applied on new surfaces during manufacture or installation, or to restore original quality on existing glass and other porous surfaces.

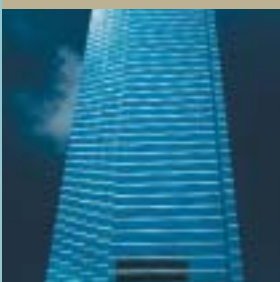




APPLICATIONS

- Residential, conservatory and commercial façades and interior surfaces
- Reflective, pirolitic and sandblasted glass
- Marine glass
- Shower enclosure glass, glazed tiles and porcelain
- Transportation glass, bridges, tunnels and passenger facilities
- Motorway and railway sound-barriers
- Solar panels
- Interior and furniture glass, art glass and mirrors
- Stonework, pre-cast concrete, brick, roofs, floors and paving
- Textiles







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