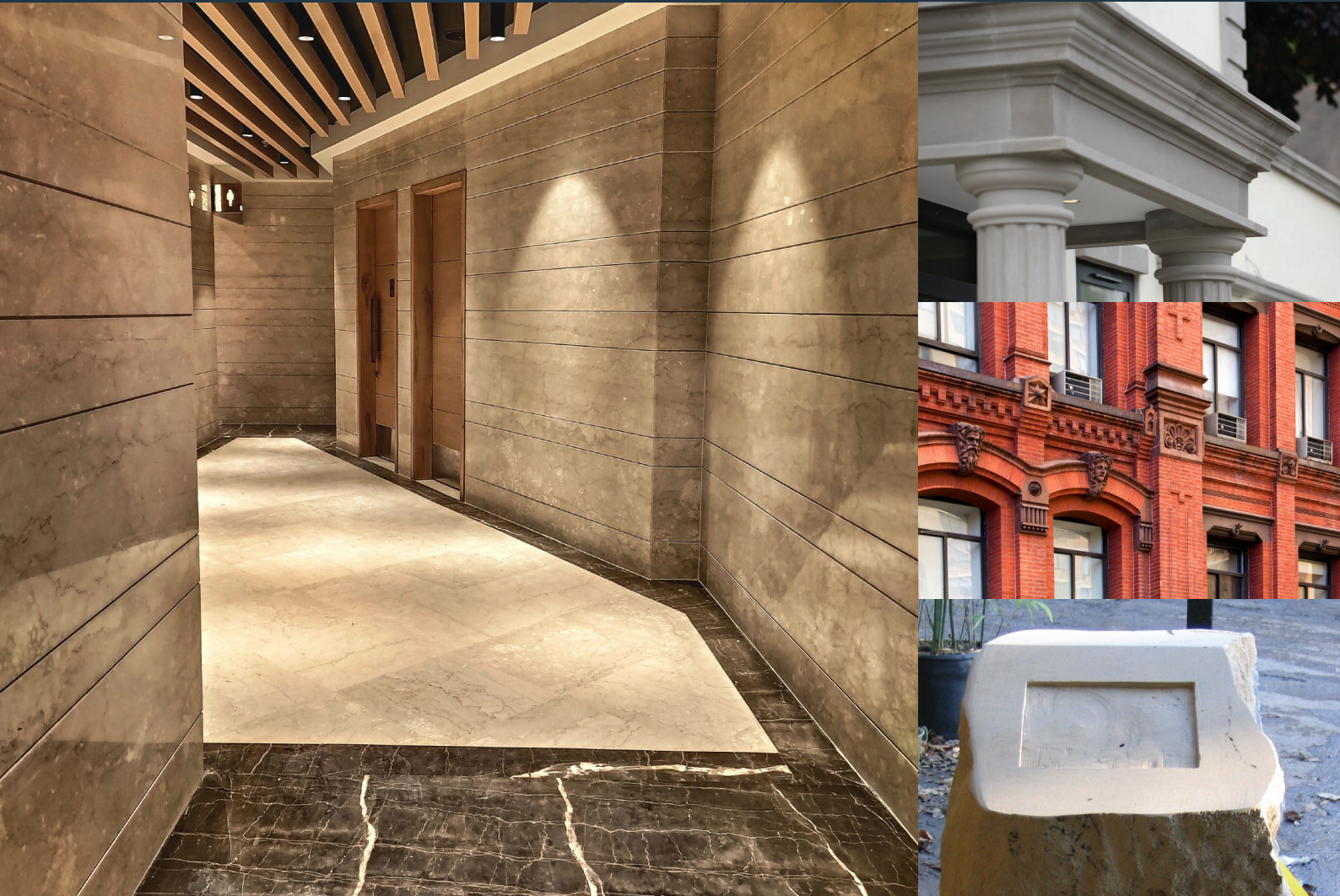


Flexiguard™ FG100/AG.25



POROUS MINERAL SURFACE PROTECTOR



Flexiguard™ is a stain-resistant formula specifically designed to coat porous silicate substrates, such as stone, concrete, terracotta and clay. Once applied, a protective layer less than 100-nm thick (80,000 times thinner than a human hair) bonds with inner pores of the substrate to leave a smooth, anti-stain, non-discolouring surface layer.

Applications

- Sandstone
- Precast concrete blocks
- Terracotta
- Brick or clay
- Slate, Granite, Marble
- Stone panel floor and wall coverings
- Façades of buildings
- Roofing tiles

Product specification below...



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

Flexiguard™ offers protection against:

- Embedded and ingrained soiling, mould or fungal growth
- Abrasion and frost damage
- Chemical attack, including oxide corrosion by acid rainwater, damage by alkaline run-off from construction materials such as cement, concrete and plaster, and from fat, grease and oil products
- Corrosion by salt and other climatic coastal and marine conditions.

Structure

Solvent-free Flexiguard™ is made up of silicon dioxide molecules whose surface energy is modified by anti-bonding molecules. On application to the porous substrate, silicon dioxide 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 porous substrate from high to low energy. This low-energy status is fundamental to the repellent qualities offered by treated surfaces.



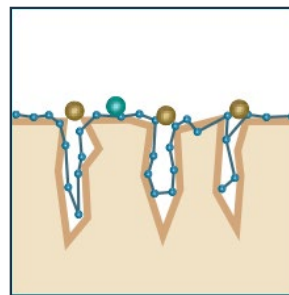
Benefits

- The existing surface quality is preserved, becoming highly water and grease repellent, and resistant to ingrained soiling, mould and fungal growth.
- Contaminates are unable to adhere to the surface.
- Cleaning becomes much easier and less frequent – typically required 50–70% less often – and the coating withstands high-pressure (up to 50–60 Bar).
- The lifespan of the substrate is extended because of reduced cleaning cycles.
- The surface remains clean and will not discolour.

Treatment Methods

Applied by surface spraying onto deep-cleaned surfaces, Flexiguard™ can be applied almost anywhere: on site, at manufacturing premises or in a dedicated application centre.

Flexiguard™ can be applied on new surfaces during manufacture or installation, or on existing surfaces to prevent further deterioration. Hardening at $+20^{\circ}\text{C}$, the treatment requires no additional energy or UV light during application.



As the silicon dioxide molecules (blue/grey) in Flexiguard™ bond seamlessly with those lining the inner pores of the substrate, the anti-bonding molecules (brown) form a highly protective, breathable surface layer. By preventing a build-up of water, dirt or oil, the growth of mould, fungi, moss and bacteria (green) is inhibited.

To purchase Flexiguard™ [shop here](#).

To see the rest of the building protection range [click here](#).

