

Nile Quartz Surfaces - Technical Information for Nano Protection materials

The latest Generation of Ceramic Coating.

Nano Technology is a ceramic hybrid material between organic Si-C-N and inorganic SiO₂. Nano Technology is fluorine-free and creates a dense barrier on the surface. All Nano Technology versions are > 600nm...up to 3-5 micron.

Transparent, virtually invisible and Free from Halogens, Nano Technology has a specially enhanced stain repellence and cleanability developed specifically and exclusively for **Nile Quartz Surfaces**. It is the most durable product within our collection. Nano Technology gives quartz surfaces reliable protection against contaminants, graffiti and acid. Kitchen worktops are protected from acid corrosion. The strong chemical bond to the OH surface groups guarantee outstanding permanence in relation to weather resistance, as well as mechanical and chemical durability.

Chemical basis:

Modified pre-ceramic achieved through the intelligent arrangement of hybrid (organic and inorganic) structures making it Food-safe which is an essential qualification to market the product as Quartz worktops!

Water & Stain resistance:

Between 100° and 110° (20µl) – this is the angle of the beading droplets that occur when applying water droplets to the surface. This means that it is extremely hydrophobic (water repellent). Smears and spillages are very easily removed with a simple wipe. With a Slip angle of < 20° and Chemical stability of between pH 1 and pH 13 it makes the surface resistant to attack from a broad range of chemicals. (anything above pH 13 is categorised as caustic industrial drain cleaner)

Durability (mechanical):

> 30,000 cycles pursuant to ISO 11998. This means the coating will essentially wear at the same rate as the substrate, almost making it a permanent bond. Until now, state of the art technology has been unable to combine high water and dirt repelling effects with a high durability against mechanical wear on synthetic or metallic surfaces. Inorganic groups provide Nano Technology with perfect adhesion to the substrate with a pencil hardness of 9H, while organic groups generate superior non-stick effects. Hence Nano Technology combines properties that were previously mutually exclusive

NILE TRADING UK LTD

Unit DC4A, Prologis Maylands Gateway, Blossom Way, Hemel Hempstead, HP2 4ZB

E: Info@nilestone.co.uk

T: 01992 639139

W: www.nilestone.co.uk