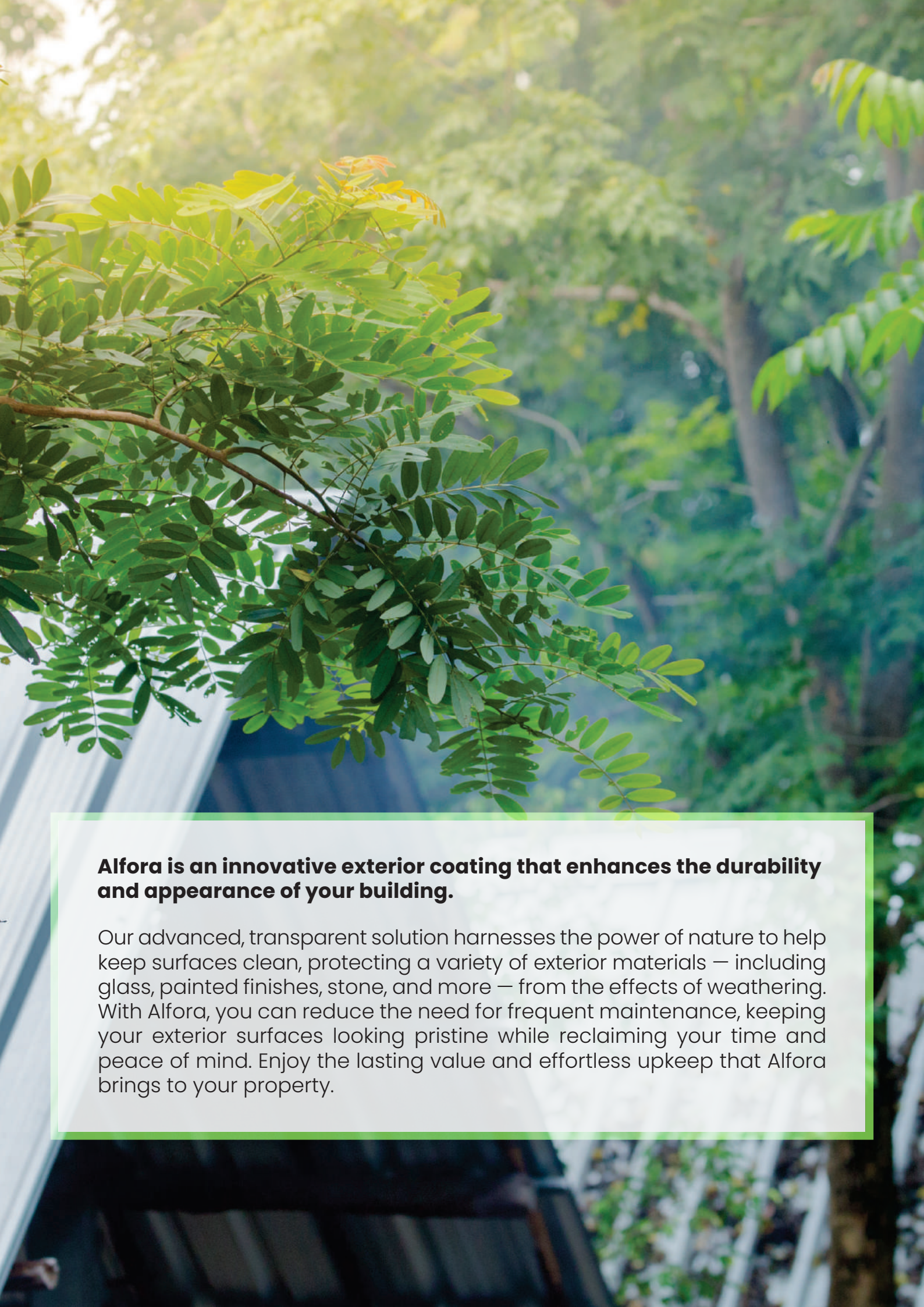

FEYNMAN
LABS
Keeping
exterior surfaces
cleaner for longer.
ALFORA
www.feynmanlabs.sg



Alfora is an innovative exterior coating that enhances the durability and appearance of your building.

Our advanced, transparent solution harnesses the power of nature to help keep surfaces clean, protecting a variety of exterior materials — including glass, painted finishes, stone, and more — from the effects of weathering. With Alfora, you can reduce the need for frequent maintenance, keeping your exterior surfaces looking pristine while reclaiming your time and peace of mind. Enjoy the lasting value and effortless upkeep that Alfora brings to your property.

HYDROPHILICITY

Alfora nano particles keep your exterior surfaces dirt-free, without leaving water stains. Coated hydrophilic surfaces allow water to have a contact angle of under 20°, essentially spreading thinly across the surface that enhances it's transparency and easing water outflow.

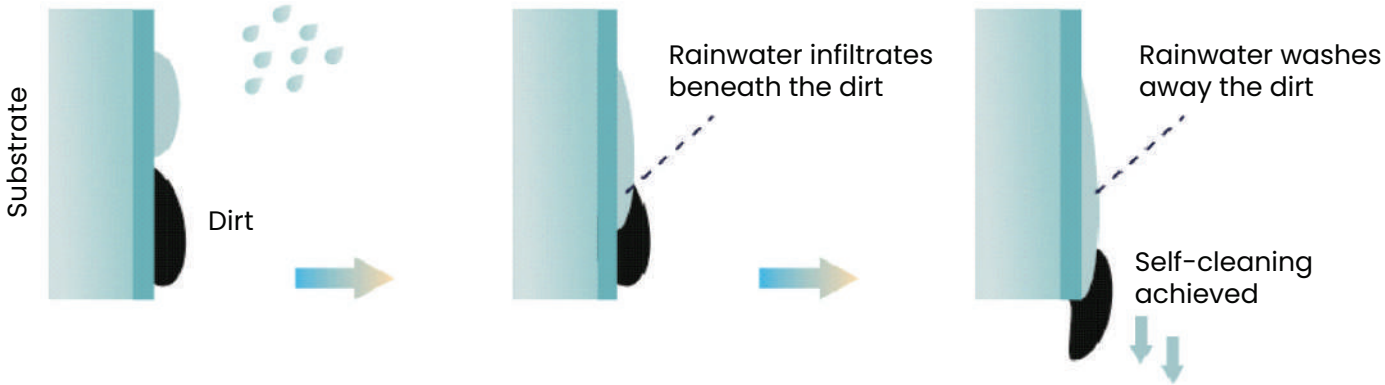
Our research labs found hydrophilicity to be more effective in self-cleaning than hydrophobicity used in most other solutions. At a molecular level, rainwater flows closer to our coated exterior surfaces and can effectively wash away dirt and grime accumulated on the surfaces.

Uncoated: water contact 70°

Alfora: water contact 4°

Water does not form droplets

Now, rain helps to wash your surfaces

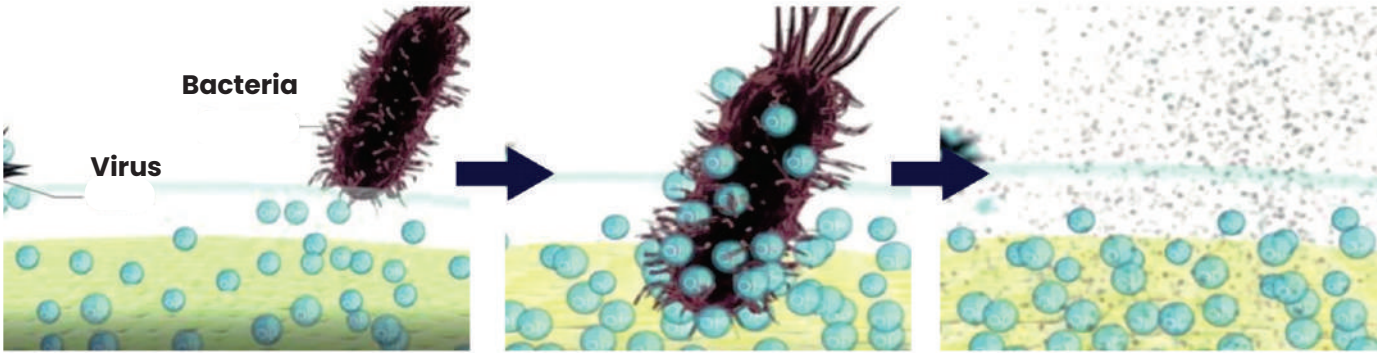


STERILIZING

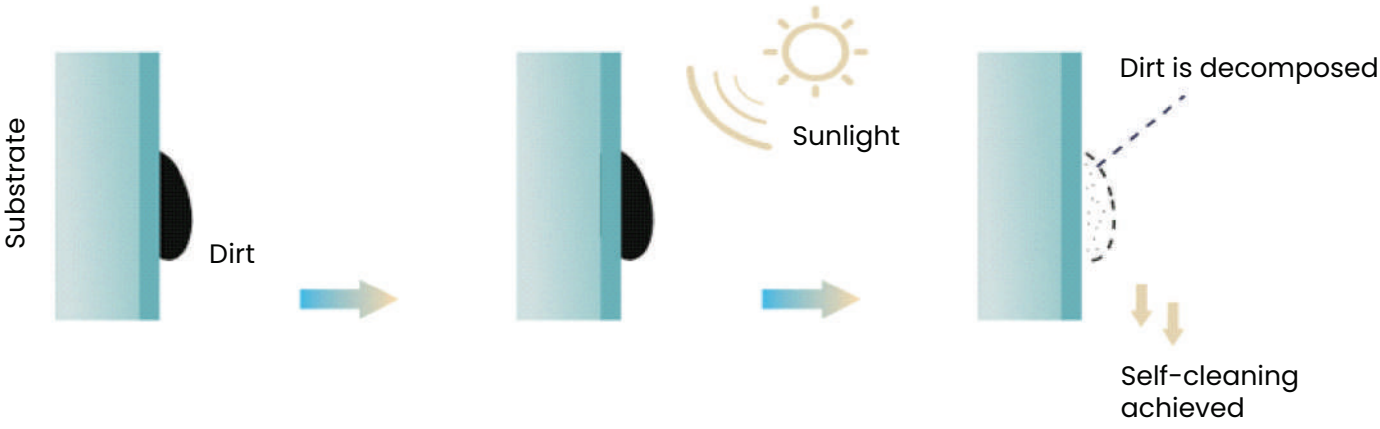
Alfora utilizes nano-titanium dioxide and an apatite mix, among other nano compounds, to become photocatalytic in nature. The coating uses natural sunlight to achieve a better self-cleaning effect.

Under exposure to sunlight, the nano particles catalyzes to generate highly oxidative free radicals and reactive oxygen. This process breaks down organic pollutants formed on the surface through rupturing of their cell membranes, making it easier to be washed away with rainwater.

Organic pollutants such as bird droppings will decompose over time



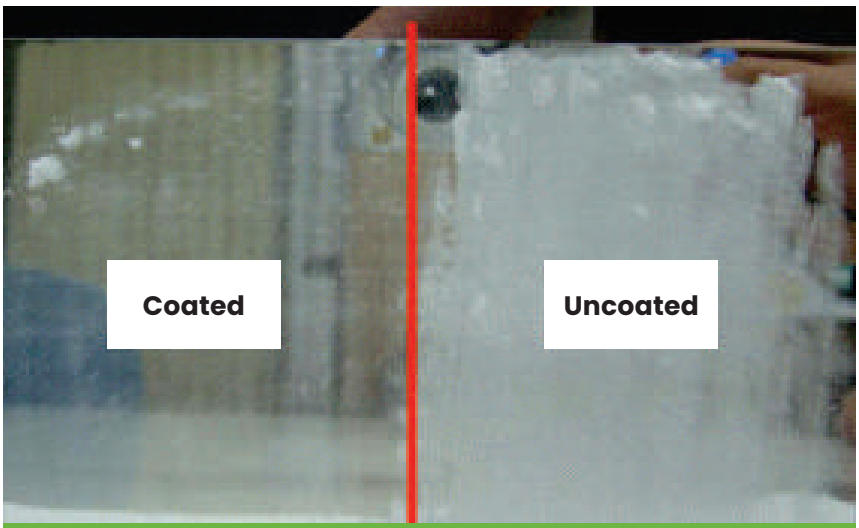
Sunlight helps to make pollutants less stubborn and adhesive



ANTI-STATIC

Alfora keeps the surface resistivity within the ideal static dissipative range, so that dust, sand, and other surface pollutants do not attach easily. Even if they do, they fall off with minimal effort. This will relief cleaning efforts in areas near the coasts and construction sites.

Dust from elsewhere is less likely to adhere to your surfaces

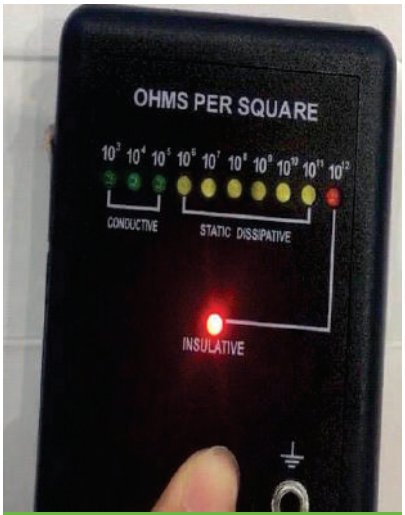


Alfora *Uncoated*

We conducted a test where powder is used to simulate dust and sand particles on a glass-like surface. After scattering powder evenly on the surface, this is the result after a light shake.

Dust will accumulate due to static electricity. Insulative surfaces are not anti-static, so they allow static to build up, causing dust and sand particles to adhere due to the charge.

Alfora



Uncoated

ALFORA

DURABLE

Alfora comprises fully of inorganic material, giving it long-lasting resistance against weather degradation. Our coating underwent an accelerated aging test and did not exhibit any signs of powdering, adhering to global standards.

A long-lasting solution to hassle-free cleaning

Accelerated aging test

Test result

Alfora is available in various surfaces:

AlforaGlass

AlforaPaint

AlforaTexture

AlforaStone

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