

MADA TOWER

ARTAR REAL ESTATE DEVELOPMENT

NANO-HYBRID PROTECTION PROJECT DOWNTOWN, DUBAI



DAB flow company is Excited through this presentation to present you the result of research and development which lasted more than six years in the field of nanotechnology and the production of finite materials filigree In collaboration with the Federal Republic of Germany as a essential manufacturer for all raw materials which are used in most industrial and trade sectors in the hope from our company thats this explanation gains our valued customers interest.

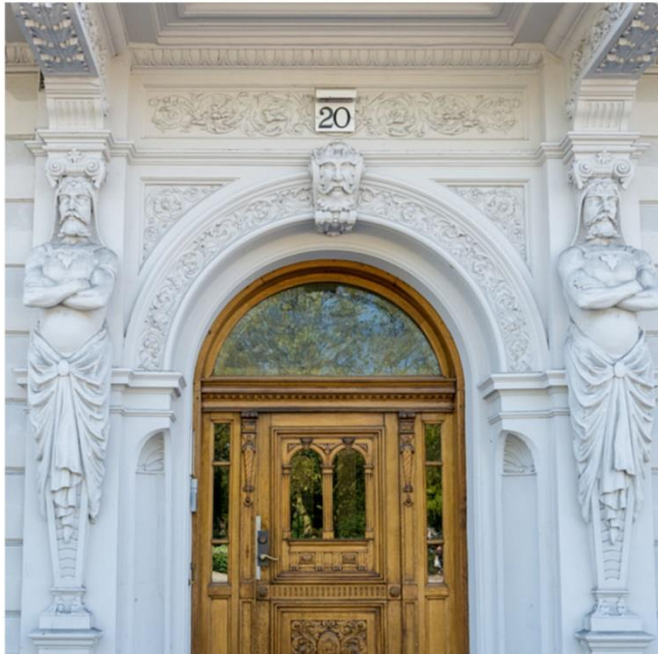


أرتار للنظوير العقاري
Artar Real Estate Development LLC.



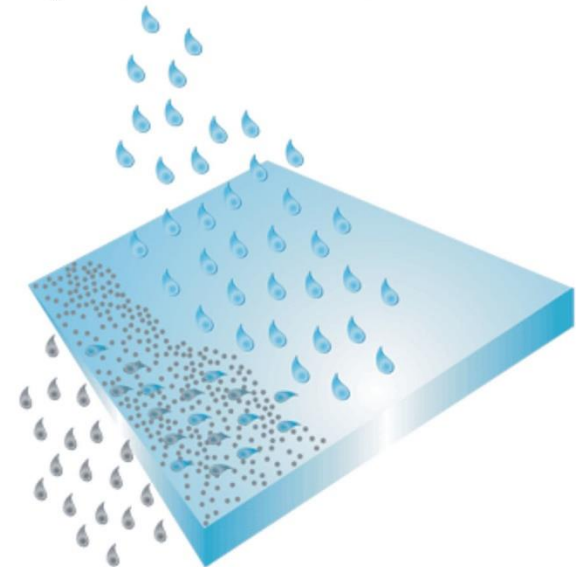
NANOTECHNOLOGY

Self-cleaning or easy to clean surfaces can reduce the amount of cleaning required. In the case of industrial cleaning in particular it can reduce labour costs and extend a material's durability. Lower energy costs and less use of cleaning detergents are expected to be the primary environmental benefits. Although surface coatings which have nanomaterials firmly embedded in a matrix are currently believed to pose only a very slight risk to the health of users and consumers.



HOW IT WORKS?

DAB FLOW - QK is a highly durable, flexible, super smooth, breathable and 'Super Phobic' coating. Being 'Super Phobic' means that it repels oil, water, and dry soiling. Dry dirt will not stick to the treated surface and liquids such as red wine, or coffee, are unable to penetrate the coating on fabrics. This is because each filament of every glass fibre is protected with a Nano scale layer of glass. Most significantly, almost all treated surfaces can be cleaned with water alone. Solvents and cleaners are, generally, no longer required. This means that, in most instances, environmentally damaging cleaning chemicals are not needed.



ARTAR PROJECT-MADA

The residential tower project (Mada) is one of the most famous projects in the city of Dubai. It is located in the downtown area and overlooks Burj Khalifa, the tallest tower in the world and near the Dubai Mall. The geographical location and unique design of the project make it one of the most outstanding projects in the region. However, if we address the challenges that will face the building after the completion of the project and start to receiving the housing units by its owners, will find that the nature of the weather which enjoys by the geographical location, the nature of the climate in the Emirate of Dubai in general and the periodic cleaning of the building to reach the most preservation of the general appearance of the project will be more difficult and costly in the first three years at least because the surrounding conditions which will effect on the building which will be listed in next topic:



- The climate of the Emirate of Dubai, which is characterized by a very hot climate, with the wind saturated with humidity, where the average temperature in the day 40 degrees Celsius and landing at night to about 30 degrees Celsius.

- Winds saturated with humidity and dust make the process of periodic cleanliness imperative to keep the buildings and stay clean.

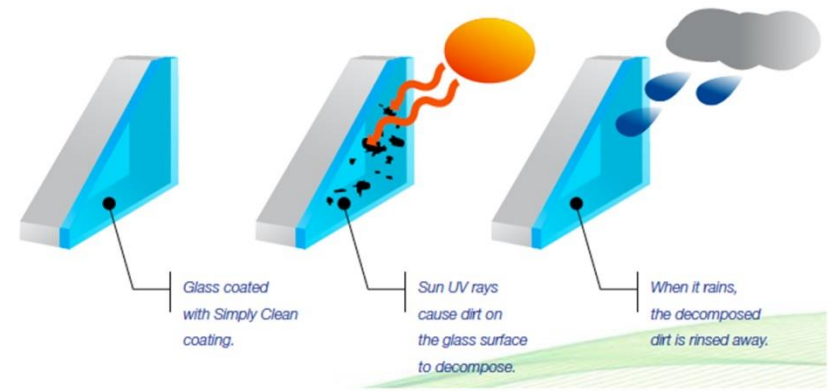
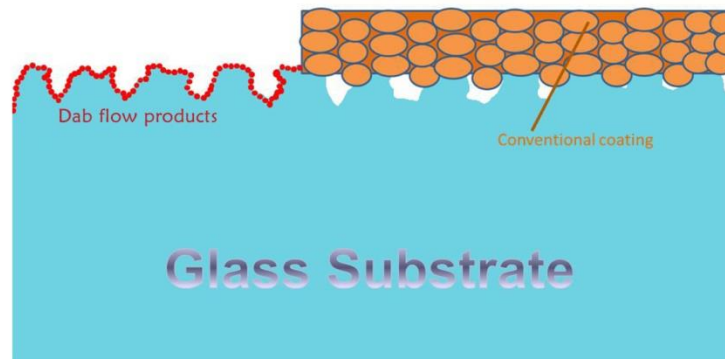
- The site of the project and the impact of nearby projects, which are currently under construction, makes the process of exposing the building to the dirt and the dust which is loaded with the construction waste is an imperative that must be addressed and reduced in the coming period.



DAB FLOW HYBRID NANOMATERIALS SOLUTIONS

DAB FLOW offers a practical solution for clean glass surfaces maintenance for as long as it possible and minimizing the use of water or industrial materials used in the periodic cleaning of this glass facades . This solution is by building a very thin nano-structure on glass surface which will interact with all glass surface atoms and build a very strong bonding network which will not allow any type of dust, dirt, mosses and liquieds to be stucked on the surface by using what its named the self cleaning concept.

In contrast, DAB FLOW products creat an ultra thin coating by covering and pentrating the nanoscale surface structure and pores of the glass.



When the building is exposed to rain or dust storms, the soil or liquid adhesion ratio will be very small on the treated surface compare to untreated surface, which is cleaned either by rain or by conventional methods. However, taking into consideration that the materials used, effort and the time spent by labors in the cleaning process will be reduced by Up to 66% from the previous time.



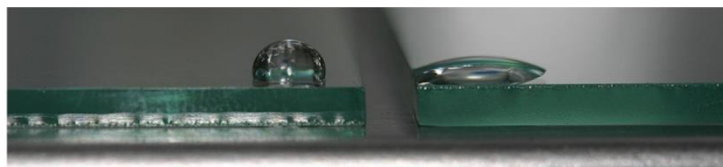
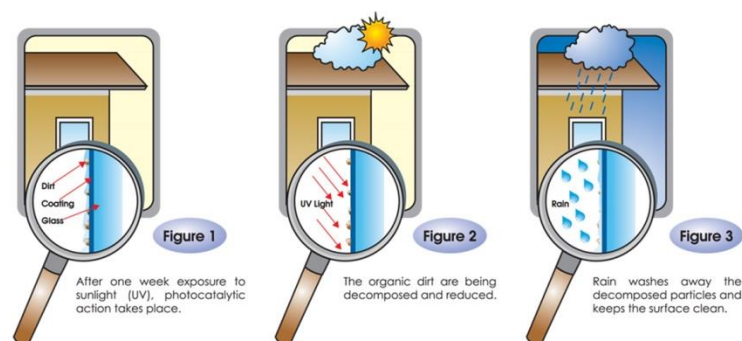
DAB FLOW- QK & IR

FULL SYSTEM RODUCTS

DAB FLOW offers two steps of protection:

The first step will be for cleaning and removing of any light scratches, silicone smears, glass corrosion and any glass contaminants.

The second step will be for long lasting protective coating for glass, The coating is an extra-thin, almost invisible, ultra-violet resistant and non-yellowing protective surface.



DAB FLOW GLAZ-IR

GLASS CLEANING PRODUCT

This products is for for the removal of any stubborn dirt on all glass panes, mirrors etc. DAB FLOW GLAZ-IR removes any light scratches, silicone smears, glass corrosion and any glass contaminates. Through the preparation, using DAB FLOW glass polisher, the lifetime and dura-bility of DAB FLOW GLAZ-IR is drastically increased.

This product is not classified as “dangerous goods” according to the German regulations RID, ADR, ADN, IMDG, IATA-DGR.

NON-FLAMMABLE

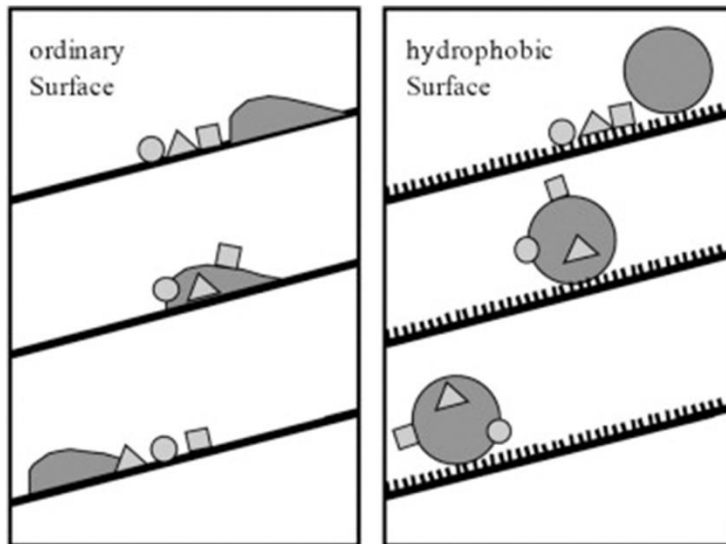
Consumption: Depending entirely upon the surface to be treated, and the method used, about 50m² can be treated with one litre of this product.



DAB FLOW QK

PROTECTION PRODUCT

DAB FLOW-QK is long lasting protective coating for glass, and mirror surfaces. The coating is an extra-thin, invisible, ultra-violet resistant and non-yellowing protective surface. Surfaces which have been treated are far easier to clean. There is no need for a cleaning product. The adhesion of any new dirt or soiling is drastically reduced by virtue of the oil and water resistant properties. Water is simply beaded-off, taking dust and dirt with it.



PROPERTIES:

- .Water, dust and dirt simply pearl-off
- ."Easy-to-clean" effect
- .Soiling is washed off without the use of commercial cleaning products
- .Anti-graffiti effect when used on marble or granite
- .No clouding of the surface or reduction of reflective properties
- .Ice/frost formation can be very easily scraped -off
- .Insects can be easily removed
- .Drastically reduced chalk deposits
- .Can be used indoors or outdoors
- .Long-life effect
- .Resistant to chemicals and solvents
- .Highly efficient coating capacity, economical in amount of product required
- .Can be renewed at any time



DAB FLOW- TUX+

PROTECTION PRODUCT

This coating protects polished porcelain stoneware, Extruded tiles, and marble from dirt.

A strong Nano barrier layer prevents the fixing of dirt particles, paint, oil, limestone, or grout in the micropores of the polished surface. Dirt can thus easily be removed with a water.

Despite this optimum protection, the respiratory activity of the surface is preserved. Due to the inorganic network, the coating is extremely durable.

It is ready to use and can be applied directly to the surface, whereby a layer is formed which is only a few nanometres, thin and very chemically and mechanically resistant.

No visual interference.

Enormous abrasion resistance.

Strong protection against dirt particles.

Curing at room temperature (24 hours).

High efficiency thanks to low consumption.

Permanent marker (e.g. edding) can be completely removed with a suitable solvent.

Pencil particles no longer settle into the pores, but can be completely removed with an eraser.

A common stain protection test with methylene blue exists.

Application will be with polishing machines.

After application, DAB FLOW-TUX+ becomes networked into the micropores of the substrate. A full cure is completed at room temperature after 24 hours.

NON-FLAMMABLE

