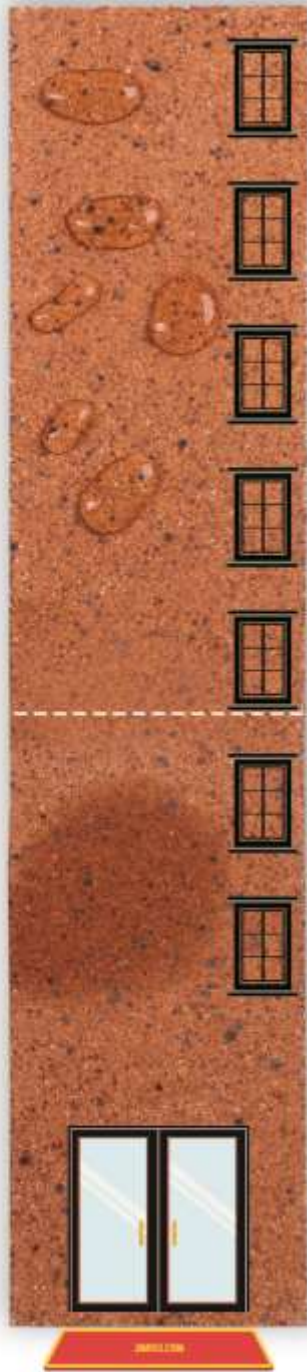




Provider of Nano Building Finishes



Waterproof Finish

Non-Waterproof Finish

.Quality means to do it right, even if no one sees



Nano Nikapak Company

This company started its activities in construction industry in 1996. Being involved in specialized façade projects, and considering the need to enhance resistance of the building materials, use of the modern technology, and nano-technology in various surface protection coverings was put in the company agenda since 2011

Aiming to realize the planned objectives, achieving the best quality, and accelerating provision of services and nano-technology products, this company has facilitated expert staff and state-of-art knowledge, and is honored to receive certificate of quality from Iranian Quality Association in 2014, and Certificate of Management from Oxford Cert of England, and make a great move towards its objective relying on Iranian wills and capacities





Waterproofing Nano Covering for Bricks

Nano-technology brick covering material is the same hydrophobic material applied to the absorption surfaces, which has lots of advantages compared to the conventional resins

Waterproofing nano brick covering product is customized for Iran's climate and all the international standards for improving resistance against acid rains, sunlight (UV), cold and heat, and water/oil immersion tests have been done in the nano laboratory. Lifetime of this product in Iran, under tough conditions, is minimum .10 years

Advantages

- Avoiding efflorescence
- Preventing penetration of dust to the bricks
- Resistance against freezing and cracking
- Keeping the surface clean
- Increasing lifetime and durability of the brick
- Transparency and maintaining the visual effect

Application of the waterproofing brick covering product before installing the bricks prevents potential spill of the slurry during construction, and penetration of the cement grout to the bricks, which keeps the finishing surface nice and clean and reduces the washing costs

Nano Application Method

The best application method, which provides maximum efficiency of the nano covering, is as follows:

1. For better endurance, the surface must be completely dry and clean, and as mentioned before, this product makes no changes to appearance of the surface and only protects your desired surface.
2. When applied to the façade, it is better to spray a layer of the product on the surface. Spraying device can be a simple spray gun.

The product is stabilized after 24 hours, and it is better to apply the product in temperatures above zero.

3. When applied to the ground it is better to use paint brush or paint roller (for application of the covering before installing finishing material).

Note: Many of the conventional coverings available in the market, such as silicon oils and resins fail gradually due to the sunlight or changes of temperature.





Nano Protection Covering for Cement Façades

This material is suitable for various cement surfaces.

Considering the growing use of cement façades, especially for high-rise buildings and towers, and high costs of painting, this product is a suitable choice for protecting the cement façades, and can waterproof and protect the cement façade, or any cement surface, against the natural phenomena without changing its color. Moreover, this product, due to its hydrophobic properties, keeps the cement façades clean.

Advantages:

- Preventing penetration of dust to the cement surface
- 100% moisture isolated
- Frost resistant
- Easy to clean
- Maintaining respiration of cement surfaces
- Increasing lifetime of the cement

Nano Stone Protection Product

A Hydrophobic Material for Protecting Building Stones

Advantages:

- Preventing penetration of dust to the stone
- Completely colorless and odorless
- Preventing water absorption in the stone
- 100% moisture isolated
- Resistance against frost and cold
- Making stone surfaces easy to clean (reducing significantly maintenance and cleaning costs)
- Increasing
- Increasing lifetime of the material

Application of the stone protection covering before installation of stone of the façade prevents effect of spilling slurry on the stone, and finally keeps the finished surface clean and reduces significantly the cleaning costs.





Kaveh Blvd, Easht Akhlaghi St

Client: Mr. Bozorgzad

Application:

White Nanopaint with Anti UV and Antistatic Properties
as well as Elastic Properties for Painting Cement Façades



Darus, Yarmohammadi St

Client: Mr. Sharifiha

Application:

Hydrophobic, Anti UV, and Antistatic Nano Material
Used to Maintain Durability and Cleanness of the Façade



Shahrak-e Gharb, Dadman Blvd

Client: Mr. Rafie

Product:

Hydrophobic, Anti UV, and Antistatic Covering for
Enhancing Durability and Cleanness of the Stone
Surfaces

Resalat Highway, Majidieh Intersection

Client: Ajor-Sepand Building

Product:

Hydrophobic, Anti UV, and Antistatic Covering for
Enhancing Durability and Cleanness of the Brick Surfaces



Zaferanieh, Alef Square

Client: Azarakhsh Building

Product:

Hydrophobic, Anti UV, and Antistatic Covering
for Enhancing Durability and Cleanness of the
Brick Surfaces

Nano-Sealant

You can use this product for waterproofing bathrooms, roofs, balconies, etc, with damping problems due to decay of the lower insulation layers, or improper application of insulation, with no need for destruction and at the lowest cost.

General Specifications

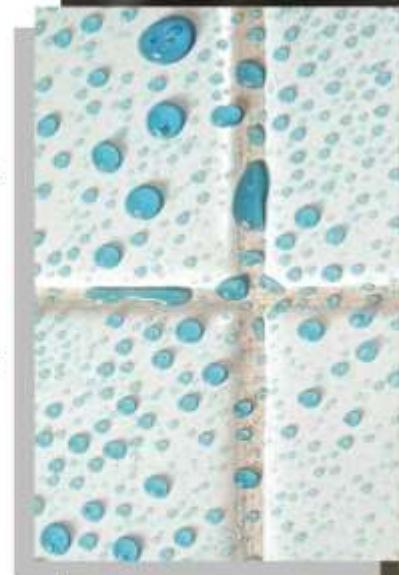
1. Liquid sealant (no need for destruction)
2. High resistance against detergents and acids
3. High surface permeability
4. The liquid must be kept away from direct light in proper temperature (5-25°C)

Pointing Liquid

- Pointing liquid used to keep the filling free of dirt
- The product is used for enhancing and waterproofing various types of filling, ceramic, brick, stone, etc

General Specification

1. This product is used as an alternative for pointing gout.
2. High resistance against detergents and acids
3. The liquid must be kept away from direct light in proper temperature (5-25°C)







Construction Nano-Paint

Painting the interior and exterior surfaces of the building with paints produced using nanotechnology can provide a proper insulation against moisture, heat, and cold, in addition to a plain color effect.

In order to avoid waste of energy you can insulate all building surfaces against heat and cold, without making any changes to the architectural spaces, by a thin layer of paint.

This nano-paint, due to its extremely high adhesion property, can cover all the surfaces, and can be applied to plaster, cement, paint, metals, and other types of materials.

This paint is a water-based paint and can be mixed with acrylic paints. One of the exclusive characteristics of the nano-paint is its elasticity, which makes it deformable and elastic. For example on a cement façade painted by ordinary paints, leakage and climatic factors make small paint cracks on the cement, which eventually cause shrinkage of the paint on the cement surface.

When nano-paints are used, due to the mentioned elasticity, the cracks occur underneath the nano-paint, and no tracks are seen on the paint.

Nano-paint provides a higher strength on interior surfaces compared to the ordinary paints. In normal conditions, the paints are inflexible and fragile; but this product shows an extremely high impact resistance, due to its elasticity.

General Specifications

- One kilogram of this product can cover on average 5m² of plaster or 2m² of cements surface, when applied twice.
- The product is packed in 10Kg containers.
- Water-based dyes can be added to this product to make various colors.
- The product comes in white color and is more concentrated than ordinary paints.
- Price of the product is reasonable and can compete with the conventional construction paints.



Efflorescence Remover Solution

Efflorescence is one of the common defects of brick façades. The main reason of efflorescence is the high sulfates content of the brick and mortar, which appears after the water is absorbed. When efflorescence occurs on the wall, the brick is considered to be the only reason by mistake, while the salts dissolved in the mortar and the grout can also cause efflorescence.

Important Note:

Sometimes the brickwork is done by non-expert people. In such cases grout and cement mortar spill over the brick and may look like efflorescence.

It is necessary to mention that when there are other pollutants other than efflorescence, the surface must be cleaned before applying efflorescence remover.

It is also recommended to use hydrophobic nano material to waterproof the surface after removing the efflorescence in order to keep the façade clean.



Hydrophobic properties Test of nano coating

No	Test	Standard	Result	Remarks
1	Contact Angel	ASTM D 7334	175-176	-
2	Water Absorption	ASTM D 570	60%	No water absorbtion
3	Oil Immersion Test	ASTM D 543	Unchanged	Hydrophobic properties were maintained after the test
4	Water Immersion Test (30 Days in Temperature of 30°C)	ASTM D 543	Unchanged	Hydrophobic properties were maintained after the test
5	Water Immersion Test (30 Days in Temperature of 30°C)	ASTM D 543	Unchanged	Hydrophobic properties were maintained after the test
6	Water Immersion Test (30 Days in Temperature of 30°C)	ASTM D 543	Unchanged	Hydrophobic properties were maintained after the test
7	Water Penetration	ASTM E 514	-	-
8	Density	DIN 12791	1.01	-
9	Boiling Point	ISO 3679	96.3	-
10	pH	DIN 19261	7-6	-
11	Particle Size	ASTM E 2578	30-50 nm	-
12	Humidity	ASTM F 2420	1000 Hr.	Hydrophobic properties were maintained after 1000 hours
13	Changes of Water Appearance	BS 23-6920	Unaffected	-
14	Salt Spray	ASTM B 117	1000 Hr.	Hydrophobic properties were maintained after 1000 hours
15	Adhesion Tape Test	ASTM D 3359	Unchanged	Hydrophobic properties were maintained after Scratching
16	Abrasion Resistance	ASTM D 4060	Unchanged	Hydrophobic properties were maintained after Scratching
17	Abrasion Resistance of Dimension Stone Subject to Food Traffic	ASTM C 1353	Unchanged	-



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