

## Product Datan Sheet

# NewPro-Nano StonePlus with Graffiti Protection for absorbent Stone Surfaces

(a special product, available upon request for nonabsorbent granite surfaces)

### Introductory Remarks

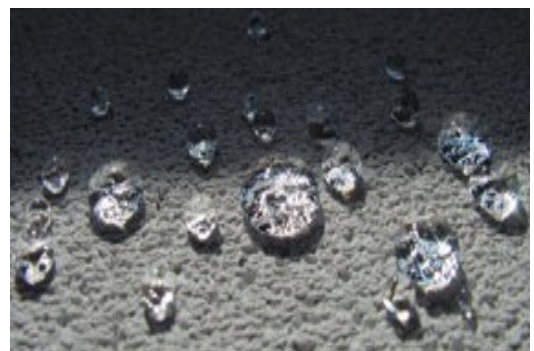
Open-porous stone surfaces react sensitively to fats, oils and other dirt deposits, which easily penetrate these surfaces. The raw surfaces deeply absorb these pollutants, which lead to unattractive and clearly visible stains and soiling. Even with intensive cleaning such persistent stains cannot be removed. A long-lasting stain and dirt-deflecting protection is, therefore, required for these surfaces.



A hydrophobic/oleophobic coating like our NewPro-Nano StonePlus with Graffiti Protection was conceived in such a way that deposits of pollutants are reduced to a minimum and damages from environmental influences are prevented. Through the hydrophobic/oleophobic effect of the protective coating, dirt particles such as fat and oily materials, lime and materials from environmental influences can no longer be absorbed directly through the stone surface. Dirt particles are easily removed without the need for abrasive cleaning solvents or machines. Due to its inorganic network structure, the coating is extremely durable. Along with the NewPro-Nano SteinPlus anti-graffiti protection, we offer a wide range of products to compliment the surface coating which offer an easy, hygienic and environmentally safe cleaning of the coated stone surface.

### Product Description

NewPro-Nano SteinPlus with Graffiti protection is a ready-to-use application dissolved in water. With the application of the coating, nanoscale particles are integrated into the surface texture. Through a chemical reaction, silicon-functional groups form a firm bond with the surface of the stone, which gives the stone surface a long-lasting protective effect. Other functional groups lead to a strongly distinctive hydro and oleophobia resulting in good care and performance characteristics. A coating with NewPro-Nano StonePlus with Graffiti Protection over an existing surface coating, such as silicone or acryl (even if this protective layer is removed) does not achieve antigraffiti protection with the NewPro-Nano StonePlus with Graffiti Protection because the nano-coating is not able to permeate the absorbent stone surface. The special advantage of NewPro-Nano StonePlus with Graffiti Protection lies in the fact the chemical reaction creates a transverse cross-linking. This transverse cross-linking achieves a pronounced sturdy two and three-dimensional network chemical structure.



### Range of Application and Use

NewPro-Nano StonePlus with Graffiti Protection can be applied to interior or exterior as well as horizontal surfaces

## Range of Application and Use

Due to its formulation, NewPro-Nano StonePlus with Graffiti Protection is suitable for absorbent silica based stone surfaces. It can, therefore, be successfully applied as a dirt-deflecting, UV-stable coating to the following stone surfaces:

- Clay bricks
- Concrete blocks
- Marble
- Natural stones such as sand stone
- Stone panels
- Terracotta.

Beyond that, areas of application include ground and wall coverings, building facades, functional terracotta or roofing tiles. The stone surfaces also continue active breathing after the coating.

NewPro-Nano StonePlus with Graffiti Protection covers a broad range of applications. For this reason, we recommended conducting a test to the surface to determine suitability and sustainability. The surfaces should be coated immediately after prepurifying and touch or other contact should be avoided.

## Product Characteristics

NewPro-Nano StonePlus with Graffiti Protection coated stone surfaces are water non-absorbent. Further advantages include:

- Cleaning using high-pressure cleaner, by which a pressure of 50 bar makes very effective cleaning possible
- Easy to apply
- Easy to clean
- enormous output resistance
- frost protection
- Graffiti protection
- hardening by precipitation at room temperature. No additional energy or UV - light necessary
- high efficiency through economical use of cleaning solvents
- longer life of concrete terracotta slabs by reduced cleaning cycles
- no dirt, stains or soiling which is sucked by water into a pores surface
- no impairment of the optics of the surface
- no moss or fungus formation
- short drying times
- solvent-free and odorless
- strong Hydro- and Oleophobia
- UV-Stability
- with anti-water effect high frost -/thawing stress. No surface cracking from ice.

## Durability

NewPro-Nano StonePlus with Graffiti Protection offers the following guarantee:

When professionally applied and with careful following of instructions regarding care of treated surface, this product offers a 10-year guarantee for the following functions:

- Easy-to-clean Properties
- Enormous resistance to wearing
- Heat stability up to temperatures of + 450 ° Celsius
- High pressure cleaner strength with an application pressure of 50 bar
- No impairment of the optics of the surface
- Strong Hydro- and Oleophobia
- UV-Stability.

NewPro-Nano StonePlus with Graffiti Protection offers an efficient after-care program. Damages to the surface protection with new pro nano stone plus with Graffiti protection are always reparable.

## Procedural Instructions for Use

Surface Pretreatment/Pre-cleaning:

All Surfaces must be clean, dry, absorbent and free of grease, oil and dust.

1. Rough contamination, soiling and loose parts are to be completely removed.

By extreme contamination or grime, repeat the above-mentioned procedure if necessary.

NewPro-Nano StonePlus with Graffiti Protection comes ready to use.

The recommended application method is by means of a spraying device. The best results are achieved with HVLP nozzles. With these nozzles a very small droplet size can be achieved. Application on freshly formed and damp substrates (basis) is also possible. NewPro-Nano StonePlus with Graffiti Protection can also be applied to the surface of the stone using an industrial spraying device or by manual spraying.

Application (manual spraying):

The coating surfaces must be grease-free and completely cleaned and dry prior to application. NewPro-Nano StonePlus with Graffiti Protection should be applied in square-meter fashion to large surfaces.

For manual spraying it is to be noted that surfaces should be sprayed with a minimum of 2 processing steps, or coatings (subsequent coatings are to be sprayed while still wet). Depending upon porosity of the surface the procedure should be possibly repeated. An even, material-saving coating is achieved when applying the product using a compressed air or electrically operated spraying device. Moisten stone surfaces with a fine atomized spray. A puddle formation on the substrate should be avoided.

1. spray NewPro-Nano StonePlus with Graffiti Protection onto the surface evenly.

After initial contact to the surface NewPro-Nano StonePlus with Graffiti Protection immediately settles into the pores of the surface.

2. allow the coated surface 2 - 5 minutes to dry.
3. If necessary, evenly distribute or remove unused material using a lambskin roll.

## Procedural Instructions for Use

### Notice:

NewPro-Nano StonePlus with Graffiti Protection covers a wide range of applications. For this reason, we recommend that you carry out your own test to determine the durability and stability of the product. The surfaces should be coated immediately after prepurifying and, before coating, should not come into contact touch with hands or other objects.

### Further Application Techniques:

In addition to spraying, dipping, brushing or lambskin rolling is also a suitable means of application. However, with these application techniques a high consumption of the product is to be expected.

### Hardening Time:

- Only a few minutes after application, NewPro-Nano StonePlus with Graffiti Protection is dry and stable enough that it is accessible with clean and soft footwear.

The complete hardening process is reached with dry surfaces within 12-24 hours (ambient temperature + 20° Celsius). At other ambient temperatures a variation of the hardening times is possible.

### Use:

- use of the material depends on the absorbency of the substrate and lies between 30 to 200 ml/m<sup>2</sup>. Thus, surfaces of 5 to 30 m<sup>2</sup> can be coated with 1 liter of the product.

The exact amount of product needed should be first determined with a test to the surface.

### Reworking/Improvement and New Coating Application:

The quality of the surface protection is designed for durability over many years. If the surface protection should nevertheless exhibit damages after longer use in exceptional cases, it can be repaired if necessary by the new pro nano active protection stone.

### Cleaning and Care of the Coated Surface:

Due to the extraordinarily easy care of NewPro-Nano StonePlus surface a clean and maintained appearance can be achieved without aggressive cleaners and abrasive cleaning equipment. Surfaces coated with NewPro-Nano StonePlus remain unchanged in their structure and color, remain homogeneous and stable and are thereby resistant to all the usual household acids and caustic solutions. Above and beyond that, new pro nano stone plus offers an effective protection against graffiti.

For routine care we recommend the use of a soft, non-scratching sponge and/or cloth with the NewPro Nano surface cleaner. For strong contamination we usually recommend the application of the NewPro-Nano Combo Cleaner (ratio 1:30).

Therefore, an efficient after-care program is available for the NewPro-Nano StonePlus surface protection.

### Notice:

The use of very aggressive cleaning agents, such as scrubbing cleansers and/or scrubbing powders, highly concentrated discharge cleaners, armature and steel cleaners as well as powdered WC cleaners should absolutely be avoided because they can cause damage to surfaces and, thus, the surface protection too. Surface damaging and/or scrubbing cleaning equipments are likewise not be used.

## Procedural Instructions for Use

### Notice:

The quality of the surface protection is designed for many years of durability. If the surface protection should nevertheless exhibit signs of damage after longer use in exceptional cases, it can be repaired if necessary with the use of the new pro nano active protection.

### Mixing Instructions:

NewPro-Nano StonePlus with Graffiti protection comes ready to use dissolved in water and can be applied directly to the surface. An admixture of foreign substances negatively affects the product properties as well as the life span of the product and the applied protective coating.

## Delivery Form

### Packing Units:

- NewPro-Nano StonePlus Spray Bottle (250 ml)
- NewPro-Nano StonePlus 12x Spray Bottle (250 ml)
- NewPro-Nano StonePlus Spray Bottle (500 ml)
- NewPro-Nano StonePlus Spray Bottle (1000 ml)
- NewPro-Nano StonePlus Canister (5 liter) (1 unit)
- NewPro-Nano StonePlus Canister (5 liter) (2 units)
- NewPro-Nano StonePlus Canister (5 liter) (4 units).

Further kinds of packing, packing sizes and colors are available on request.

### Color:

- Colorless, in a dry condition colorless.

## Further Notices

### Transport:

- Unlabeled and non-hazardous materials.

### Storage:

- 6-month storage life at ambient temperature in tightly sealed original packaging
- completely use up any open containers of materials prepared for coating
- protect against moisture, frost and heat
- storage temperature + 4° Celsius to + 30° Celsius.

### Disposal:

- dispose of the remains of the product at the local regulated/designated waste disposal site
- do not dispose of in the sewer system, drainage systems or watercourses
- recycle only completely emptied and cleaned containers.

## **Work Hygiene**

Before breaks and at the end working with the product, wash hands thoroughly. Do not eat, drink or smoke during use. Avoid eye and skin contact with the product. If necessary, wear protective clothing.

For further instructions, cautions or notices, please refer to the product safety data sheets.

## **Safety Precautions**

Keep away from children. Keep containers tightly sealed closed. In the event of eye contact, immediately flush eyes out with water. In the event of skin contact, wash skin thoroughly with water and soap. If necessary, seek the advice of a doctor or physician. Do not smoke during application and use. If swallowed seek immediate medical advice and show the packaging or product label to the treating physician.

For further instructions, cautions or notices, please refer to the product safety data sheets.

## **Protective Measures**

The general protective measures for water-soluble materials are to be considered.

The technical advice regarding the use and application of our products is the result of extensive research and development as well as many years of experience, and is given to the best of our knowledge. The different kinds of requirements of an object/surface, under varying conditions, make it necessary for the user to check the suitability for the intended purpose. We reserve the right to make or effectuate changes which serve to affect the technical advance or improvement of our product.

For further instructions, cautions or notices, please refer to the product safety data sheets.

Dated: 27.04.2006