Natural Stone Imports ™ Ultimate Sealant

Product Information

Description

- High-tech, water-based, impregnation made from high-performance materials using innovative technology.
- Its nano-scaled components penetrate even the smallest pores and capillaries, sealing and impregnating the surface effectively without altering its visual appearance.
- Provides a long-lasting protection from chemical and mechanical impacts (erosion) under the most extreme conditions.

Suitable Substrates

- Interior & exterior absorbent natural stone surfaces (limestone, sandstone, cantera, etc.)
- Concrete & masonry (pavers, brick)
- Pavers
- Wood
- Clay

Other Data

Packaging sizes:	1 Quart, 1 Gallon, 5 Gallons, 55 Gallons.
Storage/ Shelf Life:	At least 24 months if stored in a cool and dry place in unopened original container.
Application forms:	Spraying, brushing, rolling.
Area coverage:	Up to 450 square feet per gallon depending on substrate's porosity.
Layer Thickness:	100- 350 nm
Pot life:	Approximately 5 hours at 23 °C/ 55% rel. air humidity.
Temperature stability:	-250°C permanent to 450°C peak
Processing temperature:	+1°C to 30°C
Weather Resistance:	3500 h pursuant to ISO 11507 A
Drying:	- Dust-dry after approximately 1.5 hours at 23°C/ 50% rel. air humidity. - Curing time after 48-72 hours at 23°C/ 50% rel. air humidity.

Salt Water Resistant:	Yes
Chemical Stability:	Between pH 1 and pH 13
Boiling Point:	97°C
Flash Point:	>66°C
Density 20°C	~1,0 g/cm3
Chemical Resistance:	Resistant to chemical cleaners, detergents, solvents.
UV Resistance:	No changing of contact angle after 250 hour exposure with UV-machine Uvaspot 1000 (UV-light from 295 nm, power 1000 Watt, distance 32 cm

Testing Data (3 tests per category)

Carbon Dioxide Permeability EN 10626: 2003 Paints and varnishes; coating systems for exterior masonry and concrete.	i (g/(m².d)) Average= 2.48
Permeability to water vapor EN ISO 7783: 2012 Paints and varnishes. Cup method.	v (g/(m².d)) Average transmision rate= 1.8513
Capillary water absorption and water permeability EN 1062-3: 2008 Paints and varnishes; coating systems for exterior masonry and concrete.	w (kg/(m².$h^{0.5}$)) Average= 0.008
Thermal change compatibility- Thunder-shower cycling (thermal shock) and freeze-thaw cycling with de-icing salt immersion EN 13687-2: 2002 Products and systems for the protection and repair of concrete structures.	Degree of blistering STN EN ISO 4628-2= 0 (S0) Degree of cracking STN EN ISO 4628-4= 0 (S0) Degree of flaking STN EN ISO 4628-5= 0 (S0)
Thermal change compatibility- ageing at 70°C for 7 days EN 1062-11: 2002 Paints and varnishes; coating systems for exterior masonry and concrete.	Degree of blistering STN EN ISO 4628-2= 0 (S0) Degree of cracking STN EN ISO 4628-4= 0 (S0) Degree of flaking STN EN ISO 4628-5= 0 (S0)

Resistance to temperature shock EN 13687-5: 2002 Products and systems for the protection and repair of concrete structures.	Degree of blistering STN EN ISO 4628-2= 0 (S0) Degree of cracking STN EN ISO 4628-4= 0 (S0) Degree of flaking STN EN ISO 4628-5= 0 (S0)
Resistance to severe chemical attack EN 13529: 2003 Products and systems for the protection and repair of concrete structures.	Degree of blistering STN EN ISO 4628-2= 0 (S0) Degree of cracking STN EN ISO 4628-4= 0 (S0) Degree of flaking STN EN ISO 4628-5= 0 (S0)

Application

- Stir contents before application.
- The surface should be clean and free of loose particles. Pre-clean soiled surfaces with a pressure washer or steam blaster prior to coating application. Defects in the surface must be repaired before application.
- The humidity of the surface must be below 4%. There should be no direct sunlight.
- Concrete surfaces must be completely cured (28 days after it's been poured).
- Saturate the surface with the protective coating (apply a generous amount of it).
- Method 1: Application with brush or paint roller.
- Method 2: Application with a compression sprayer or with a backpack sprayer.
- Method 3: Application with airless or HVLP-systems.
- 20 minutes after applying the first coat, a second coat should be applied. Drying will take between 0.5 and 3 hours, depending on weather conditions. The protection level will reach its maximum after 24 hours.

Additional Information

- Clean soiled surfaces with cold, running water and a soft brush.
- After intensive cleaning the impregnation has to be refreshed if the water-repellent effect of the surface is insufficient. It is not necessary to remove residues of this coating. After an efficient pre-cleaning, it can be reapplied as described above.
- Disposal: regard your local rules and regulations.
- No responsibility or guarantee of the coating's performance will be held due to its incorrect application or an application different from what is stated in this data sheet. Since the application process is out of our hands, Nanotech-Surface Solutions is not liable for any errors performed during this process.
- The user is supposed to test the product at his own risk in an inconspicuous area prior to applying it to the whole surface.