



Product Data Sheet

NewPro TTN Nano NC 500

HIGH QUALITY SiO_2 COATINGS BASED ON NANO-TECHNOLOGY FOR NON-ABSORBING SURFACES

NewPro TTN Nano NC 500 is a ready-to-use, nano-ceramic, dirt-repellent coating with excellent anti-adhesive and barrier properties to protect and preserve many different non-absorbing surfaces.

NewPro TTN Nano NC 500 is transparent and thus hardly perceivable with the eye.

NewPro TTN Nano NC 500 is based on nano-ceramic components that harden with the assistance of surrounding humidity to a glass-like surface. This surface is distinguished by excellent bonding properties and excellent chemical durability. It is also extremely UV and weather resistant (2000 h xenon test DIN EN ISO 11341).

EXAMPLES OF USE:

- Temporary protection against acid for natural stone (marble, granite).
- Protection against graffiti for smooth surfaces such as plastics (PS, PC, PMMA, PU, PE, PP), varnishes, one or two component finishes (urethane or epoxy systems), polyester finishes, glass fibre-reinforced plastic surfaces, acrylic paint (plasma treatment necessary) or reflecting road signs.
- Corrosion protection for a great variety of precious metals such as copper, silver, aluminum or V2A / V4A steels.
- Fingerprint protection for structured surfaces.
- Transparent, dirt-repellent and thermally resistant coating for metal cooking and baking materials.

PRODUCT CHARACTERISTICS:

- Very dense silicon dioxide-network
- High hydrophobicity + high oleophobicity
- Powerful anti-adhesive properties and pronounced easy-to-clean effect
- Food-safe (inert)

OTHER PROPERTIES:

- Coating thickness between approx. 300nm and 3 μm
- Permanent (UV-stable, enormous abrasion-resistance)
- Resistant to temperature change
- Chemical-resistant (except for pH value of < 2 or > 12)
- **NewPro TTN Nano NC 500** has a strong, ammonia-like odour
- **NewPro TTN Nano NC 500** must be applied by trained specialists taking into account the safety data sheet



APPLICATION:

Industrial: In the appropriate spray- / doctor blade coating systems.

NewPro TTN Nano NC 500 is "dry-to-touch" after around an hour.

Prior to putting into service ("weather resistance"), a minimum drying time of 8h after completing the coating is necessary to attain a degree of water resistance.

Full effectiveness of the **NewPro TTN Nano NC 500** coating is attained after curing for 5 to 7 days at room temperature.

STORAGE STABILITY:

The storage duration is at least 12 months in the unopened original packaging. The material should be stored cool and dry.

CONSUMPTION:

Manual: 10-20 ml/m².

ADVANTAGES OF SiO₂-COATINGS IN COMPARISON WITH COMPETITORS

- Permanence and longevity:
- The UV-stability enables functionality for a number of years, approximately the lifetime of the coated surface.
- Abrasion-resistant easy-to-clean effect

A permanent chemical bond with the substrate enables excellent abrasion resistance.

- Chemical stability

The product is resistant to all commercially available solvents and almost all common household and industrial cleaning agents (except concentrated acids and bases).

IMPORTANT NOTICE:

The details and comments provided conform to our current knowledge and experience. However, we are passing them on purely as a courtesy and they are not binding, even with regard to the existing intellectual property rights of third parties. In particular, no assurance of any features and/or characteristics are provided here within a legal definition. All rights to make changes within the framework of technical advances and additional operational developments are reserved. The purchaser is not released from his obligation to make a careful check of the characteristics/features. Mentioning of trade names belonging to other companies is not a recommendation and does not exclude the use of similar products. Naturally, we guarantee the quality of our products in accordance to our general sales conditions.

The products are ready-to-use and must not be mixed with other substances or batches. NewPro advises against filling into aerosol containers.