



**DEEP-HYDROPHOBIC TREATMENT  
BASED ON NANO-TECHNOLOGY  
FOR POROUS MINERAL SURFACES**

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## **PRODUCT NAME:** **NANOFLEX® TPM 300**

This product is optimized for absorbent surfaces because of its formulation. It can therefore be used as an water- and contamination-resistant, UV-stable deep hydrophobic treatment on porous substrate surfaces, regardless of whether the surface is a natural stone such as sandstone, concrete, terracotta, clay brick or stone panelling. Floor or wall coatings, building facades, functional terracotta or roof tiles are all in the scope of application for this product. Nanoflex® TPM 300 creates a deep hydrophobic layer, that penetrates deeper in the substrate than traditional coatings and prevents water and waterborne contaminants from entering the substrate and causing premature deterioration.

An additional application of Nanoflex® VP 172 gives a thoroughly protection in and outside of the surface

### **EXAMPLES OF USE:**

Every type of porous surface with a mineral-based origin

- Concrete / Concrete blocks
- Lime stone / Sandstone
- Porous granite / marble
- Roof tiles / clay / Terracotta

### **PRODUCT CHARACTERISTICS:**

- Strong hydrophobic properties several millimeter inside the protected material
- Strong non-stick properties
- Excellent easy-clean effect regarding deposits of air pollution



## ADVANTAGES:

- Excellent Hydrophobic properties
- Solvent-free and odorless
- Hardening at room temperature. No additional energy or UV light required.
- Pressure wash-resistant (50 - 60 bar)
- Excellent efficiency with low quantity consumption
- No color infiltration to coated substrates.
- High temperature-resistance
- UV-stable
- Absolute frost-resistance

## OTHER POSITIVE EFFECTS, SUCH AS E.G.:

- No contamination can infiltrate the pore-structure through water.
- Easy cleaning
- Enduring impregnation enables very high freeze-thaw resistance and no cracking because of ice.
- Very heavy reduction of moss and fungus growth
- Longer life-spans for substrates because of lowered cleaning cycles.
- Enduring protection for the surface structure.
- Excellent weather damage prevention

**APPLICATION:**

Application by dipping is preferred.

This SiO<sub>2</sub>-coating is completely networked and hardened after 24 hours. The easy-clean effect can only be tested after this hardening phase.

Please take note from the MSDS before application of the product.

If an additional protection on the surface of the substrate is required (e.g., oleophobic effects), Nanoflex® VP 172 can be applied on top after the substrate is completely dry (minimum 24 hours).

**STORAGE STABILITY:**

Unopened original containers can be stored for at least 2 years.

Recommended storage- and transport temperature: +3 to 30°C

**CONSUMPTION:**

Manual + Industrial: between 30 and 500 ml/m<sup>2</sup>, depending on absorbency of the substrate



- **ADVANTAGES COMPARED TO COMPETITIVE PRODUCTS**

- Permanence and longevity:

The UV-stability enables a lifetime performance of the coated surface – assuming it is not damaged by abrasion.

Many competitive products like silicon oils or fluorocarbon technologies are slowly destroyed by sunlight

- (Abrasion resistance)

Negligible on mineral surfaces due to the low abrasion resistance of the substrate.

- Chemical stability:

The product is resistant to almost all standard household and industrial cleaners (with the exception of concentrated alkaline solution).

Many competitive products do not have this quality and must be reapplied.

## **IMPORTANT NOTICE:**

Our explanations correspond to our current knowledge and experience. We are passing it on, however, without obligation, also with regard to third party patent rights. In particular, a warranty of assured quality in the legal sense is not associated with it. The right to make alterations within the framework of technical advances and operational development is reserved. The customer is not released from careful quality examination. The mention of other company names is not a recommendation and does not exclude the use of similar products. We guarantee the quality of our products in accordance with our general sales conditions as a matter of course.

Mixing with other substances or other charges is strictly forbidden. Nano-Care Deutschland AG advises against filling up in aerosol-packaging.

Please take note from the MSDS before application of the product.