

NFS-104

New Invisible Water Repellents Coating on Porous Construction Materials
Water-based Easy-to-Clean Surface
Building Protection Product

Product description

NFS-104 is a water-dilutable, solventless and silicone -based water repellent coating. It is a high quality product for hydrophobic and protection of construction materials.

Features and Benefits

NFS-104 is characterized by:

- Easy-to-Clean Surface
- Combination of hydrophobicity and nano-structure
- Oil and water repellent
- Anti stain
- Anti graffiti
- Water-vapor permeable (breathability)
- Resistance against efflorescence
- Excellent chemical resistance
- Long-term UV and weather resistant
- Easy removal of soil
Prevention of soiling (e.g water streaks) and growth of microorganisms, so surfaces stay clean longer
- Improved durability against icing and salt stress
- Excellent stability
- Durable
- Cost-effective
- Environmentally friendly
- Transparent

NFS-104 forms an extremely stable, and thus highly durable, three-dimensional network, which repels liquid water but is permeable to water vapor.

NFS-104 protects the surfaces against different weathering conditions and significantly increases the lifetime of materials.

The adhesion of dirt and soil towards treated surfaces is drastically reduced and the cleaning process is significantly facilitated.

This product is non-toxic, colorless, durable, with excellent coverage, UV and weather resistant, compatible with a variety of construction materials, including all surfaces of brick, stone, Thatched, plaster, concrete, cement and wooden buildings.

Applications

NFS-104 is widely applicable on porous construction materials like normal and reinforced concrete, brick, natural stones, plaster and thatched surface and wood.

How it works

Due to the low energy of treated surfaces the repellency of water and oil is significant (e.g. water contact angle $> 90^\circ$), therefore soil cannot stick to the surface and is easily removed. This Water-based system generates invisible, weather-resistant and breathable water-repellent coating on porous surfaces. The applications range from easy-to-clean to permanent anti-graffiti coatings.

Physical Properties at 25 ° C

Appearance	milky white
Specific Gravity	approx. 1 g/cm ³
Theoric Coverage	18 to 20 m ²
Surface drying time	2 hours
pH-Value	approx. 7

Processing

Deposition method of this coating on various surfaces is by using the spray, brushes and rollers. The coating method of this product is single-step, quite simple, easy, economical and practical.

Before coating, the surface must be cleaned from grease and dust and then, dried completely.

Old and flaky paint (if there is) must be removed from the surface through sanding before coating the surface.

Agitate or stir the bucket or drum before using.

Diluting solvent: Water

Dilution ratio: Dilute **NFS-104** in a ratio of **1:3** with water.

Water should be added slowly to the solution while stirring. It should not be mixed with a strong stirrer. Then, it is ready to spray or apply by a brush.

Note: When using brush or spray, make sure that the surface is completely saturated. It is necessary to repeat the coating after about 20 minutes.

Storage

One year shelf life when stored in cool and dry place in closed containers at a temperature of 5-35 °C.