



## **FAIRMATE NANOSIL™**

### **NANOSILICONE BASED WATER REPELLENT**

#### **BENEFITS**

- Eco Friendly
- Provides excellent water repellency to the substrate
- Water based & no harmful solvents
- Forms clear film upon drying so does not alter substrate appearance
- Reduces growth of mold, algae, bacteria etc
- Simple application & no specially skilled applicators needed
- Faster reaction time
- Breathable
- Reduces material & labor cost
- It protects the substrate from deterioration due to weathering
- Excellent water proofing agent useful for new existing concrete masonry structures
- Good UV & Thermal stability
- No need of waterproofing membranes
- It penetrates deep into surfaces
- Long life will require repetition of work after 10 years

#### **DESCRIPTION**

**FAIRMATE NANOSIL** is clear, water soluble, safe, penetrating sealer based on organo silane nanotechnology. It penetrates deeply into the substrate and become an integral part of the structure. **FAIRMATE NANOSIL** protects against mildew, fungus, leaching staining, premature ageing, scaling, spalling, Corrosion of reinforced steel. **FAIRMATE NANOSIL** is breathable, UV resistant and can also seal nanopores & nanocracks. **FAIRMATE NANOSIL** can be easily applied by brush, spray or roller.

#### **USES**

**FAIRMATE NANOSIL** is recommended for use on Masonry Blocks, Concrete, Unsealed stucco, Sand and dirt, Plaster, Grout, Aggregates, Pavers, Cement Tile,

#### **PHYSICAL PROPERTIES**

**Appearance** : Slightly Yellowish Liquid  
**Specific Gravity (kg/ltr)** : ~ 0.95

#### **TECHNICAL SPECIFICATIONS**

ASTM D 6489 Concrete water penetration -Less than 15% after 24 & 48 hrs

ASTM G 154 Accelerated weathering -Less than 5% Loss after 2000 hours

ASTM 1653:03 Masonry vapor transmission -passes (Breathable)

ASTM E 514 Brick/masonry standard test for water penetration- Passes 85% reduction

ASTM E 303:93 Wet Concrete Slip Resistance - Complies IS 3067-1988 Masonry dampproofing of Building -Complies

#### **INSTRUCTIONS FOR APPLICATION**

**Solution Preparation :** **FAIRMATE NANOSIL** must be diluted with potable water (TDS below 1000 ppm) to obtain a clear transparent solution. Test the water quality before making **FAIRMATE NANOSIL** solution.

Take 200 gm water in a clean beaker; add 5 gm of **FAIRMATE NANOSIL** to it under manual stirring, till **FAIRMATE NANOSIL** dissolves. A clear solution indicates good water quality. If the sample solution turns turbid / whitish the water quality is not acceptable. In rare cases when turbidity is seen even in potable water do not use **FAIRMATE NANOSIL** and for further queries contact **FAIRMATE**.

**Application :** For effective and long term waterproofing, apply **FAIRMATE NANOSIL** solution in the recommended dilution ratio on the area to be treated till saturation, to ensure 3 to 4 mm penetration into the substrate.

**FAIRMATE NANOSIL** is best applied at ambient temperatures of 10 °C to 35 °C. We recommend that the application be done in the morning or evening hours, to avoid peak heat of the sun.

#### **Horizontal Surfaces**

Apply diluted **FAIRMATE NANOSIL** solution with flood or roller application. Multiple roller passes will ensure full saturation up to 3-4 mm.

**Vertical Surfaces :** For achieving best performance, spray diluted **FAIRMATE NANOSIL** solution from **bottom to top**. Full saturation for the vertical surface is achieved when, with repetitive light spray (typically 2 - 3 times after every 30 - 45 seconds time interval), solution starts dripping.

**Drying :** **FAIRMATE NANOSIL** treated surfaces becomes waterproof only after the water dries off completely. Check waterproofing by splashing water on the treated surface. If the water droplets remain for at least 10 to 15 minutes, waterproofing and surface curing is confirmed.

# FAIRMATE NANOSIL™



## NOTE:

During rainy seasons and wet conditions, Depending on surface wetness and residual water absorption capacity, **FAIRMATE NANOSIL** should be diluted with water in the ratio of 1:10 to 1:20. For quick and complete drying, use halogen lamp or hot blower on the surface. Confirm waterproofing on horizontal or vertical surface with RILEM test.

The dilution ratio and the exposure time with the halogen lamp must be decided by the applicator depending on the site conditions.

## LIMITATIONS

- Do not apply to frozen or frosted surface. The unused material to be sealed tightly & stored properly.
- Do not apply over previously sealed surfaces.
- Do not apply during very windy conditions.
- Do not apply when rain is expected within 2 hours.
- Do not allow traffic on sealed surface until completely dry. Do not stop application half way.

## PACKING & COVERAGE

**FAIRMATE NANOSIL** is supplied in 1 kg & 5 kg .

Sr. No.	Application areas	FAIRMATE NANOSIL	WATER	FAIRCURETE FBR	TOTAL	Coverage
1	All exposed surfaces like clay roof tiles, tile joints, IPS layers, walkways, paved surfaces	1	40	0	41	25-40 m <sup>2</sup>
2	Basement, Sunks, Mother slabs, Pre Stone Cladding, Priming before IPS / Plastering / Tiles	1	40	1	42	25-40 m <sup>2</sup>
3	Stones, Plastered & Concrete structures	1	40	0	41	25-40 m <sup>2</sup>
4	Exposed Bricks/Fair faced concrete	1	40	0	41	25-40 m <sup>2</sup>
5	Priming for Painting	1	40	2	43	80-100 m <sup>2</sup>
6	Treatment of Honeycomb, Cracks, Cold Joints	1	40	1	42	Upto saturation

## SHELF LIFE & STORAGE

**FAIRMATE NANOSIL** will have a shelf life of **12 months** in unopened containers when kept in dry conditions at a temperature between 5°C to 35°C. Material must be kept under shaded area and away from direct sunlight. Storage at higher temperature or high humidity may reduce shelf life.

## QUALITY ASSURANCE

Fairmate manufactures entire range of construction chemicals under compliance of ISO 9001, ISO 14001 & ISO 45001 (Occupational Health and Safety) certified by ISOQAR / UK.

## TECHNICAL SERVICES

While new advances and changes will take place but one thing will never change is quality and meeting special needs of our customers. Our laboratory in Baroda and technical personnel & experts are available to provide additional information and technical assistance. We are eager to work with you in development of new product and resolve your problem.



Always Better than best in Quality, Service & Value

**Corporate Office**  
8, "SAI SUDHA",  
Arunoday Society, Alkapuri  
Vadodara 390 007. Gujarat, India

+91 265 2331193, 2330803, 2358173

+91 7574834603

1800 12345 34

sales@fairmate.com

www.fairmate.com  
www.fairmatebuildingsolutions.com



AUSTRALIA BANGLADESH ESTONIA INDONESIA KENYA MYANMAR MALAYSIA NEPAL QATAR SRI LANKA UK USA VENEZUELA

The information given in this data sheet is based on both the current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept the responsibility for any work carried out with our materials as we have no control over methods of application, site conditions etc. In view of the continuing research and development being undertaken in our laboratories we advise customers in their own interest to ensure that this data sheet has not been superseded by a more up-to-date publication. All products are sold subjected to our standard conditions of sale which are available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact our local FAIRMATE representative.