

Aquastop Nanoflex

Breathable, anti-alkali and chlorine-resistant, elastomeric, Nanotech Technology based cementitious membrane for the flexible waterproofing with high levels of adhesion and durability of surfaces before laying tiles using adhesives.

Aquastop Nanoflex develops a smooth, creamy mixture paste with a consistency that can be adjusted by varying the amount of water, allowing for optimal workability according to specific site conditions. It ensures maximum adhesion to the bonded system.



Rating 4

1. Floors and walls, for internal and external use
2. Flexible and robust
3. Highly breathable
4. Crack-Bridging ability even at low temperatures
5. Specifically intended for laying using H40 Gel or Bioflex
6. Suitable for overlaying
7. 20% better coverage than two-component systems
8. The Nanotech Technology, makes it complete water repellent, chemically stable and permanent elastic

- ✓ Regional Mineral $\geq 60\%$
- × Recycled Mineral $\geq 30\%$
- ✓ $\text{CO}_2 \leq 250 \text{ g/kg}$
- ✓ VOC Very Low Emission
- ✓ Recyclable

Area of use

→ Use

Ideal for any format swimming pools on ground and in suspension terraces. Also, applicable on small format terraces, balconies and horizontal surfaces on monolithic cement-based screeds, dimensionally stable natural stone well-anchored to the surface and clean cement-based plasters/renders and cementitious mortars, aged concrete. Consult with Kerakoll Technical Service for the assessment of the substrate

Do not use:

- on gypsum or anhydrite-based surfaces, water-based surface isolation,
- on metal or wood substrates,
- on bituminous sheeting, to waterproof exposed surfaces subject to foot traffic,
- on insulation layers on inverted roofs made with insulating panels or low-density materials,
- in swimming pools and tanks where water is exposed to waterproofing membrane.

Instructions for use

→ Surface preparation

Careful surface preparation is essential for optimum finish and durability.

The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the membrane.

Surfaces should be structurally sound. Old, loose coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Mechanical wire brushing may be appropriate for small areas.

When working on weakened parts, when parts of the substrate are missing and also in the case of gravel beds, the substrate must be restored with suitable repair mortars. Uneven areas must be corrected with suitable smoothing and finishing products. Any loose surface pieces and grinding dust need to be thoroughly removed.

Before application damp absorbent surfaces without letting any stagnant water.

→ Repair of cracks and joints

The careful sealing of existing cracks and joints before the application is extremely important for long lasting waterproofing results.

- Clean concrete cracks and hairline cracks, of dust, residue or other contamination and fill them with Geolite Gel or polymer modified mortar (with Aquastop P6 as per recommended proportions).

- Clean concrete expansion joints and control joints of dust, residue or other contamination. Widen and deepen joints (cut open) if necessary. The prepared movement joint should have a depth of 10-15 mm and maximum width of 30 mm. Insert a backer rod to control the depth of joint. The width: depth ratio of the movement joint should be at a rate of approximately 2:1. Fill the joints/cracks with Fugabella PU 40 sealant. The joint treated needs to be covered and cannot be left exposed.

- Reinforce wall-floor connections, corners using cut piece of Aquastop 120 bonded with Aquastop Nanoflex. Apply a layer of Aquastop Nanoflex, cover with a correct cut stripe of the Aquastop 120. Press it to soak. Then saturate the Aquastop 120 with enough Aquastop Nanoflex, until it is fully covered. For demanding applications, apply a third layer of the Aquastop Nanoflex.

→ Mixing and preparation

Prepare Aquastop Nanoflex in a clean container by pouring in approximately $\frac{3}{4}$ of the water required. Gradually add Aquastop Nanoflex to the container, mixing the paste from the bottom upwards with a low-rev (≈ 400 /min) agitator. Add more water until the desired consistency is obtained.

The mixture must be of smooth consistency and without any lumps. The amount of water to be added, indicated on the packaging, is an approximate guide. It is possible to obtain desired consistency of mixture according to the application demand.

Instructions for use

→ Waterproofing membrane

Aquastop Nanoflex should be applied with a synthetic brush or a plain trowel or roller on a previously prepared surface. Apply the first coat pressing down to ensure maximum adhesion to the substrate. Once hardened, apply the second coat of Aquastop Nanoflex. Apply a continuous, even layer covering the surface completely.

For high stressed area, submerge the reinforcing mesh Aquastop AR1 fully in the first layer of freshly applied Aquastop Nanoflex, submerge the reinforcing mesh fully in the first layer of freshly applied Aquastop Nanoflex, pressing down with

the trowel. The subsequent fixing of the covering should be placed at least 24 hours after the last layer has been applied, using minimum C2 class adhesive. When working in low temperatures and with high humidity, the waiting time before laying will be longer. If rain falls on the product before it is fully hardened, check for its readiness before applying the next coat/covering.

→ Cleaning

Residual traces of Aquastop Nanoflex can be removed from tools with plain water before the product hardens.

Special notes

→ Pools, tanks in cured reinforced concrete: break the spacer holes mechanically and clean them suitably, then apply Silicone Color sealant and level the surface with a suitable finishing

product. Waterproof all the corner joints, internal and external angles and connection joints to drains, by Aquastop 120 tape and special pieces.

Certificates and marks



Technical Data compliant with Kerakoll Quality Standard

Appearance	light grey ready-mixed waterproofing product	
Apparent volumetric mass	1 kg/dm ³	
Shelf life	≈ 12 months in the original packaging in dry environment	
Pack	20 kg bags with handle	
Mixing water	≈ 5 – 6 l / 1 20 kg bag	
Viscosity	≈ 60,000 mPas · sec	
Specific weight of the mixture	≈ 1.5 kg/dm ³	UNI 7121
Pot life	≥ 1 h	
Temperature range for application	from +5 °C to +35 °C	
Minimum total thickness	2 mm	
Waiting time between 1 st and 2 nd coat	≥ 6 hours	
Waiting time before laying the covering*	≥ 24 hours	
Interval before normal use	≈ 7 days / ≈ 14 days (swimming pools)	
Coverage	≈ 1.2 kg/m ² per coat	

Values taken at +23 °C, 50% R.H. and no ventilation.

(*) Thickness and weather conditions may extend these times considerably.

Performance

VOC Indoor Air Quality (IAQ) - Volatile organic compound emissions

Conformity	EC 1 plus GEV-Emicode	GEV certified 2353/11.01.02
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HIGH-TECH

Pull off adhesion strength	1.5 Mpa	ASTM D 7234–2022
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Tensile strength	1.5 Mpa	ASTM D 412 : 2016
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Crack Bridging in standard conditions	0.9 mm	EN 1062–7(4)–2004
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Elongation at break	34%	ASTM D 412 : 2016
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Depth of water penetration at 5 bar	Nil	EN 12390–8–2019
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Values taken at +23 °C, 50% R.H. and no ventilation.

Warning

- Product for professional use
- abide by any standards and national regulations
- if necessary, ask for the safety data sheet

- for any other issues, contact Kerakoll Customer Care +91-22-2839 5593 / 1800 102 4957 – info@kerakollindia.com

The Rating classifications refer to the GreenBuilding Rating Manual 2013. This information was last updated in June 2024 (ref. GBR Data Report - 05.24); please note that additions and/or amendments may be made over time by KERAKOLL SpA; for the latest version, see www.kerakoll.com. KERAKOLL SpA shall therefore be liable for the validity, accuracy and updating of information provided only when taken directly from its institutional website. The technical data sheet given here is based on our technical and practical knowledge. As it is not possible for us to directly check the conditions in your building yards and the execution of the work, this information represents general indications that do not bind Kerakoll in any way. Therefore, it is advisable to perform a preliminary test to verify the suitability of the product for your purposes.