

Aquastop Nanoflex

Certified, eco-friendly, breathable, anti-alkali and chlorine-resistant, mineral membrane for the flexible waterproofing with high levels of adhesion and durability of substrates before laying with adhesives.



Rating 3

1. Floors and walls, for internal and external use
2. Breathable
3. Crack-Bridging at low temperatures
4. Specifically intended for laying tiles using cement-based adhesives in the H40 Gel range
5. Suitable for overlaying
6. 30% better coverage than two-component systems
7. 20 kg paper bags with carrier handle
8. Nanotech technology which makes it completely water repellent and gives permanent elasticity and high chemical stability

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

Areas of application

→ Use

Terraces, balconies, horizontal surfaces and swimming pools on mineral screeds, monolithic cement-based screeds, existing floors covered with ceramic and marble tiles, dimensionally stable natural stone well-anchored to the substrate and clean, cement-based plasters/renders and cementitious mortars, aged concrete.

Do not use on gypsum or anhydrite-based substrates without the use of eco-friendly Primer A Eco, water-based surface isolation, on metal or wood substrates, on bituminous sheeting, to waterproof exposed surfaces subject to foot traffic, on low-density screeds, on insulation layers on inverted roofs made with isolation panels or lightened materials, in swimming pools and tanks used to hold exposed water, when adhesion of the coverings requires the use of H40 Extreme or reactive adhesives.

Instructions for use

→ Preparation of substrates

The substrate must be perfectly cured and dry, solid (i.e. free of weak or easily removable parts) and free from oil, grease, paint and parting compound. When working on weakened parts, when parts of the substrate are missing and also in the case of honeycombs, the substrate must be restored with suitable products. Correct uneven areas with suitable finishing products. On ceramic substrates all traces of surface treatments such as wax and oil must be removed. The most suitable cleaning methods are sandblasting, mechanical scarification or washing with detergents and jet washing. Before application damp the surface of absorbent substrates, without letting any stagnant water. Waterproof the perimeter, expansion and desolidarisation joints in the substrates using Aquastop 120 anchored using Aquastop Nanoflex; create special pieces for external angles, internal angles and connections to drains and installations by cutting the Aquastop 120 tape. Waterproof the structural joints with appropriate waterproofing systems.

→ 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 mixtures with a more or less fluid consistency, depending on the type of application.

→ Application

Aquastop Nanoflex should be applied with a smooth spreader on a previously prepared substrate. Apply the first coat about 1 - 2 mm thick, pressing down to ensure maximum adhesion to the substrate. Once hardened and after removing any surface condensation, apply the second coat of Aquastop Nanoflex. Apply a continuous, even layer about 2 - 3 mm thick covering the substrate completely. When waterproofing with Aquastop AR1 mesh, submerge the reinforcing mesh fully in the first layer of freshly applied waterproofing product, pressing down with the spreader. The subsequent laying of the covering with H40 Gel range inorganic adhesive should be placed at least 24 hours after the last layer has been applied. 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 it is ready 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, basements and foundations in cured reinforced concrete: break the spacer holes mechanically and clean them suitably, then apply Aquastop Nanosil neutral organic silane sealant and level the surface with a suitable finishing product. Waterproof the corners by anchoring Aquastop 120 tape with adhesive from the HO Gel range, creating special pieces for external

angles, internal angles and connections to drains and installations by cutting the tape itself. Where there is insufficient space to use Aquastop 120 tape, apply Aquastop Nanosil sealant.

Surfaces subject to foot traffic: use Aquastop Traffic to protect untiled surfaces that have been waterproofed using Aquastop Nanoflex.

Certificates and marks



KERAKOLL S.p.A. Sasuolo
Verbindstoffwerk P45369 301
Säurefester-Verbindstoff e. V. Burgwedel
Verwendungsbereich A und B
gemäß Prüfgrundrissen



Technical Data compliant with Kerakoll Quality Standard		
Appearance	light grey ready-mixed waterproofing product	
Apparent volumetric mass	1 kg/dm ³	
Mineralogical nature of inert material	silicate - crystalline carbonate	
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 hr	
Temperature range for application	from +5 °C to +35 °C	
Substrate residual humidity	≤ 4%	
Minimum total thickness	≥ 2 mm	
Maximum thickness per layer	≤ 1.5 mm	
Waiting time between 1 st and 2 nd coat	≥ 6 hrs	
Waiting time before laying the covering*	≥ 24 hrs	
Interval before normal use	≈ 7 days / ≈ 14 days (permanent water)	
Working range	from -20 °C to +90 °C	
Coverage	≈ 1.15 kg/m ² per mm of thickness	

Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site, i.e.temperature, ventilation and absorbency level of the substrate and of the materials laid.

(*) Can vary depending on the irregularity of the substrate and the format of the tile.

Performance		
Conformity	EC 1 plus GEV-Emicode	GEV certified 2353/11.01.02
HIGH-TECH		
Initial adhesion	$\geq 2 \text{ N/mm}^2$	EN 14891-A.6.2
Adhesion after contact with water	$\geq 1 \text{ N/mm}^2$	EN 14891-A.6.3
Adhesion after heat ageing	$\geq 2 \text{ N/mm}^2$	EN 14891-A.6.5
Adhesion after freeze-thaw cycles	$\geq 1 \text{ N/mm}^2$	EN 14891-A.6.6
Adhesion on contact with lime water	$\geq 1.5 \text{ N/mm}^2$	EN 14891-A.6.9
Adhesion on contact with chlorinated water	$\geq 0.8 \text{ N/mm}^2$	EN 14891-A.6.7
Water-resistance	no penetration	EN 14891-A.7
Breathability (No. nanopores)	$\geq 1 \text{ billion/cm}^2$	ASTM E128
Crack Bridging in standard conditions	$\geq 0.75 \text{ mm}$	EN 14891-A.8.2
Crack Bridging at low temperatures (-5 °C)	$\geq 0.75 \text{ mm}$	EN 14891-A.8.3
Conformity	CM O1P	EN 14891

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 the Kerakoll
Worldwide Global Service 01772 456 831 - info@kerakoll.co.uk



The Rating classifications refer to the GreenBuilding Rating Manual 2012. This information was last updated in June 2023 (ref. GBR Data Report - 06.23); 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.