

Aquastop Nanoflex

Certified, eco-friendly, breathable, anti-alkali and chlorine-resistant, mineral coating 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 Ability at low temperatures
4. Specifically intended for laying tiles using cement-based adhesives
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 Regional Mineral $\geq 30\%$
- ✓ CO_2 Emission ≤ 250 g/kg
- ✓ VOC Low Emission
- ✓ Recyclable

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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 Active Prime Fix, water-based surface isolation, on metal or wood substrates, on bituminous sheeting.

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, avoiding standing water.

Waterproof the perimeter, expansion and desolidarisation joints in the substrates using Aquastop 120 or Aquastop Plus 120 anchored using Aquastop Nanoflex; create special pieces for external angles, internal angles and connections to drains and installations by cutting the Aquastop 120 or Aquastop Plus 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 ($\approx 400/\text{min}$) agitator.

Add water until a fluid, smooth, lump-free mixture is obtained. The mixture must be of smooth consistency and without any lumps. The amount of water indicated on the packaging is indicative. 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 Biogel 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 or Aquastop Plus 120 tape with Aquastop Nanoflex, 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 or Aquastop Plus 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



Abstract

Waterproofing for floor-wall joints – Supply and application of alkali-resistant waterproof nitril-butyl tape with high adhesion, such as Aquastop 120 or Aquastop Plus 120 to be fixed with single-component, eco-friendly, breathable, anti-alkali and chlorine-resistant, mineral coating with GreenBuilding Rating 3, such as Aquastop Nanoflex by Kerakoll Spa. Substrate waterproofing – Certified supply and application of flexible, single-component, variable rheology, eco-friendly, breathable, anti-alkali and chlorine-resistant, mineral coating with high levels of adhesion and durability of substrates before laying ceramic tiles and natural stone with adhesives, GreenBuilding Rating 3, such as Aquastop Nanoflex by Kerakoll Spa.

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 h
Temperature range for application	from +5 °C to +40 °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 h
Waiting time before laying the covering*	≥ 24 h
Interval before normal use	≈ 7 days / ≈ 14 days (permanent water)
Working temperature	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, please contact the Kerakoll
Worldwide Global Service - info@kerakoll.ae

The Rating classifications refer to the GreenBuilding Rating Manual 2013. This information was last updated in September 2022 (ref. GBR Data Report - 09.22); 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 site 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.