# **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, ideal for use in GreenBuilding. Single-component with low CO, emissions and very low volatile organic compound emissions. Recyclable as an inert material at the end of its life.

Aquastop Nanoflex® develops a smooth, fluid mixture that can be adjusted by varying the amount of water in order to obtain optimal workability for the particular site conditions, quaranteeing maximum adhesion of the bonded system.















# **GREENBUILDING RATING®**

# Aquastop Nanoflex®

- Category: Inorganic Mineral Products
- Class: Nanotech waterproofing products
- Rating: Eco 3

<b>20</b> °	& Solo Solo Solo Solo Solo Solo Solo Sol	Recycled Sonol Mineral 200	€02 5250 g/\s	Tadoor Air Quality	Pocyclable
			<b>Ø</b>	<b>Ø</b>	<b>Ø</b>
eco			CO <sub>2</sub> /kg emission 108 g	Very low VOC emissions	Can be recycled as inert material

BATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

# **ECO NOTES**

- Can be recycled as mineral inert material, avoiding waste disposal costs and environmental impact
- Single-component; avoiding the use of plastic cans reduces CO2 emissions and the need to dispose of special waste

# **PRODUCT STRENGTHS**

- · Floors and walls, for internal and external use
- Breathable
- Crack-Bridging Ability
- Specifically intended for laying ceramic tiles, natural stone and glass mosaic using adhesives from the H40®
- Suitable for overlaying
- 30% better coverage than two-component systems
- 20 kg paper bags with carrier handle
- Nanotech technology which makes it completely water repellent and gives permanent elasticity and high chemical stability



#### **KERAKOLL® WATERSTOP SYSTEM**



KERAKOLL® WATERSTOP SYSTEM is the brand behind AquaExpert systems, the state-of-the-art waterproofing systems for balconies, terraces and any surface whatsoever where ceramic tiles, natural stone and glass mosaic are to be laid. AquaExpert guarantees 100% water-resistant substrates and the highest possible chemical/physical compatibility ratio with cement-based adhesives that are suitable for laying the floor coverings, thereby ensuring the long life of the entire bonded system.

Aquastop Nanoflex® eco-friendly membrane is used in the following AquaExpert systems:

AQUAEXPERT 1 Flexible, high-adhesion and superior durability waterproofing system which is easy and fast to apply. Specifically intended for balconies, terraces and horizontal external surfaces that are small in size and with no expansion joints in the screed to be floored with ceramic tiles and natural stone. Guarantees water-resistance without the use of a reinforcing mesh. AQUAEXPERT 2 Flexible, high-adhesion and superior durability waterproofing system which provides greater shear strength. Specifically intended for balconies, terraces and horizontal external surfaces of any size and with expansion joints in the screed to be floored with ceramic tiles and natural stone.

# **AREAS OF USE**

#### 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.

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.

ÉMISSION DANS L'AIR INTÉRIEUR Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).



#### **INSTRUCTIONS FOR USE**

#### Preparation

Prepare Aquastop Nanoflex® in a clean container by pouring in approximately ¾ 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®. Lay 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 should be placed at least 24 hours after the last layer of H40® range eco-friendly mineral adhesive 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.

#### **ABSTRACT**

#### AquaExpert 1 System

Waterproofing for floor-wall joints – Supply and application of non-woven, alkali-resistant waterproof polypropylene tape with high adhesion, such as Aquastop 70 to be fixed with single-component, eco-friendly, breathable, anti-alkali and chlorine-resistant, mineral membrane with GreenBuilding Rating® Eco 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 membrane with high levels of adhesion and durability of substrates before laying ceramic tiles and natural stone with adhesives, GreenBuilding Rating® Eco 3, such as Aquastop Nanoflex® by Kerakoll Spa.

#### AquaExpert 2 System

Waterproofing for floor-wall joints and fractionizing/expansion joints – Supply and application of waterproof polypropylene-coated non-woven polyethylene tape with high levels of adhesion, such as Aquastop 100, to be secured with eco-friendly mineral adhesive such as H40® by Kerakoll Spa.

Substrate waterproofing — Certified supply and application of flexible, single-component, variable rheology, eco-friendly, breathable, anti-alkali and chlorine-resistant, mineral membrane with high levels of adhesion and durability of substrates before laying ceramic tiles and natural stone with adhesives, GreenBuilding Rating® Eco 3, such as Aquastop Nanoflex® in which to embed alkali-resistant 10 mm  $\times$  10 mm reinforcing mesh, such as Aquastop AR1 by Kerakoll Spa.

Appearance	light grey ready-mixed waterpi	oofing product	
Apparent volumetric mass	1 kg/dm³		
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 $\ell$ / 1 20 kg bag		
Viscosity	≈ 60,000 mPas · sec		
Specific weight of the mixture	≈ 1,5 kg/dm³	UNI 7121	
Pot life	≥1 hr		
Temperature range for application	from +5 °C to +35 °C		
Minimum total thickness	≥ <b>2</b> mm		
Maximum thickness per layer	≤ 1,5 mm		
Waiting time between 1st and 2nd coat	≥ 6 hrs		
Waiting time before laying the covering*	≥ 24 hrs		
Interval before normal use	≈ 7 days / ≈ 14 days (permanen	t water)	
Working temperature	from -20 °C to +90 °C		
Coverage	≈ 1,15 kg/m² per mm of thickne	S\$	



	ANIC COMPOUND EMISSIONS		
Conformity	EC 1-R plus GEV-Emicode	GEV certified 2353/11.01.02	
HIGH-TECH			
Initial adhesion	≥ 2 N/mm <sup>2</sup>	EN 14891-A.6.2	
Adhesion after contact with water	≥ 1 N/mm²	EN 14891-A.6.3	
Adhesion after heat ageing	≥ 2 N/mm²	EN 14891-A.6.5	
adhesion after freeze-thaw cycles	≥ 1 N/mm²	EN 14891-A.6.6	
Adhesion on contact with lime water	≥ 1,5 N/mm²	EN 14891-A.6.9	
Adhesion on contact with chlorinated water	≥ 0,8 N/mm²	EN 14891-A.6.7	
Water-resistance	no penetration	EN 14891-A.7	
Breathability (No. nanopores)	≥ 1 billion/cm²	ASTM E128	
Crack-Bridging in standard conditions	≥ 0,75 mm	EN 14891-A.8.2	
Crack-Bridging at low temperatures (-5 °C)	≥ 0,75 mm	EN 14891-A.8.3	
Containmnet of drinking water	Suitable	ARPA Cert. 016824/06/RE	
Conformity	CM 01P	EN 14891	

# WARNING

- Product for professional use
- abide by any standards and national regulations
- $technological \ specifications \ and \ application \ information \ can \ be \ found \ in \ the \ Aqua Expert \ Instructions$
- if necessary, ask for the safety data sheet
- for any other issues, contact the Kerakoll India Helpline (Toll Free) 1800-200-6550 globalservice@kerakoll.com

