Aquastop Flex

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

Aquastop Flex creates a water-resistant layer on balconies, terraces, swimming pools and shower cabinets before laying ceramic tiles, even over existing coverings, doing away with the need for costly demolition work.

Rating 4

GREENBUILDING RATING
REF. GBR DATA REPORT 02.23
APPROVED

- ✓ Regional Mineral ≥ 60%
- × Recycled Regional Mineral ≥ 30%
- ✓ CO_2 Emission ≤ 250 g/kg
- ✓ VOC Low Emission
- ✓ Recyclable

1. High adhesion to absorbent and non-absorbent substrates
2. High compatibility with cement-based adhesives in the Biogel range
3. High workability
4. Floors and walls, for internal and external use
5. Constant Crack Bridging even at low temperatures
6. Suitable for the containment of water under positive-negative thrust

kerakoll

Areas of application

→ Use
Waterproofing of balconies, terraces, swimming pools, kitchens, saunas, Turkish baths, showers before coverings in ceramic, glass mosaic and stone materials are laid. Suitable for waterproofing of foundations, hoistway pits, basement areas, exterior foundation elements, including those with negative hydrostatic thrust, parts of concrete structures, elements and surfaces.

→ Suitable for:
- cement-based screeds
- mineral screeds made using hydraulic binders such as Keracem Eco
- dimensionally stable, old ceramic floorings anchored to the substrate
- marble tiles, natural stone
- concrete elements
- cement plasters and cement-based mortars

→ Suitable for gypsum substrates, anhydrite-based screeds, gypsum and anhydrite-based levelling and self-levelling products, after application of Active Prime Fix eco-friendly, water-based primer.

Do not use on metal or wooden substrates, on bituminous coverings, to waterproof surfaces that are to be walked on and uncovered swimming pools, on lightened screeds.

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 and paint. Check that the concrete contains no traces of 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 repair mortars. Uneven areas must be corrected with suitable smoothing and 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. When waterproofing monolithic tanks or swimming pools, grout the spacer holes using Geolite Gel, epoxy organic mineral system, and use Geolite mineral geo-mortar to create rigid connection shells in horizontal and vertical corners and perform any levelling operations that may be necessary.
On terraces and balconies expansion joints must be provided in the substrate.
For waterproofing of corners and expansion joints with Aquastop 120 or Aquastop Plus 120 applied using Aquastop Flex. For external and internal angles and for water and drainage pipeline crossings use special pre-formed pieces applied using Aquastop Flex. Waterproof the structural joints with appropriate systems and arrange for continuous waterproofing.

→ Preparation
Aquastop Flex is prepared by mixing component A with component B (preset ratio of 3 : 1 in the packaging). The two components should be mixed with a suitable low-rev electrical mixer for approximately 2 minutes until a mixture with a homogenous consistency is obtained. Pour the latex into a clean recipient and gradually add the powder during the mixing operation. Leave the mixture to rest for approximately 2 minutes to allow the co-polymer to become completely dispersed and mix again for approximately 20 seconds before use.

→ Application
Aquastop Flex should be applied to a previously prepared substrate with a spreader, rigid fiber brush or by spraying. When waterproofing, apply the first coat and immediately insert where Aquastop AR1 needs. Once the product has hardened, apply a second coat in a criss-cross direction as compared with the first coat making sure to completely cover the Aquastop AR1, creating a total minimum thickness of 2 mm. Aquastop Flex layers must be laid with great care to ensure the substrate is covered with optimal adhesion. The insertion of the reinforcement mesh is not required in the protection of concrete and in the waterproofing of foundations and basement areas.
Subsequent laying of the coating must take place at least 24 hours after application of the last coat, using cement-based adhesives from the Biogel range; in case of low temperatures and high humidity levels the waiting time before laying must be extended.

Instructions for use

If plaster/render is applied, a rough coat with Geolite mineral geo-mortar is required. If rain falls on the product before it is fully hardened, check it is ready before applying the next coat/ covering.

→ Cleaning
Product residues can be removed with running water before the product has hardened.

Special notes

Swimming pools, basements, reservoirs: angular couplings. The connection of horizontal and vertical corners is carried out with the creation connection shells with mineral geo-mortar from the Geolite range before laying Aquastop Flex.

Certificates and marks

EN 14891 · EN 1504-2(C) · CM 02P EN 14891 · GEV-EMICODE EC 1 PLUS very low emission

KERAKOLL S.p.A. Sassuolo
Verbundabdichtung P-65780702.001
Säurefliesner- Vereinigung e. V., Burgwedel
Verwendungsbereich A und B
gemäß Prüfgrundsätze

ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C

** 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).*

Abstract

Protection of concrete: the waterproofing on structures that must be protected from the weather and from the action of de-icing salts, must be carried out with a GreenBuilding Rating 3 two-component mineral membrane, such as Aquastop Flex by Kerakoll Spa applied in two coats for an overall coverage of ≈ 4 kg/m².
Swimming pools-Reservoirs-Basements: the waterproofing of swimming pools, reservoirs, and basements should be carried out with GreenBuilding Rating 4 two-component mineral membrane, such as Aquastop Flex by Kerakoll Spa. The horizontal and vertical angles should be connected with connection shells in mineral geo-mortar such as Geolite by Kerakoll Spa. Subsequently, the waterproofing should be applied in two coats of Aquastop AR1 with reinforcement mesh inserted, with a coverage of ≈ 4.5 kg/m².

Technical Data compliant with Kerakoll Quality Standard		
Appearance	Part A light ready-mixed compound / Part B white latex	
Pack	Part A 24 kg bag / Part B 8 kg can	
Mixing ratio	Part A : Part B = 3:1	
Shelf life	≈ 12 months in the original packaging in dry environment	
Warning	liquid: protect from frost, avoid direct exposure to sunlight and sources of heat	
Pot life	≥ 1 hr	
Temperature range for application	from +5 °C to +30 °C	
Minimum thickness per coat	≈ 1 mm	
Minimum thickness after two coats	≈ 2 mm	DIN 19195-4
Maximum thickness obtainable by coat	≈ 3 mm	
Maximum thickness obtainable	≤ 6 mm	
Waiting time between 1st and 2nd coat	≤ 24 hrs	
Waiting time before laying	≥ 24 hrs	
Interval before normal use for swimming pools and water-containment tanks	≈ 14 days	
Specific weight of mixture	≈ 1.67 kg/dm³	UNI 7121
Coverage	≈ 1.6 kg/m² per mm of dry 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.

Performance		
HIGH-TECH		
VOC Indoor Air Quality (IAQ) - Volatile organic compound emissions		
Conformity	EC 1 Plus GEV-Emicode	GEV certified 6110/11.01.02
HIGH-TECH		
Initial adhesion	≥ 1.5 N/mm²	EN 14891–A.6.2
Adhesion after contact with water	≥ 0.7 N/mm²	EN 14891–A.6.3
Adhesion after heat ageing	≥ 1.3 N/mm²	EN 14891–A.6.5
adhesion after freeze-thaw cycles	≥ 0.7 N/mm²	EN 14891–A.6.6
Adhesion on contact with lime water	≥ 0.8 N/mm²	EN 14891–A.6.9
Adhesion on contact with chlorinated water	≥ 0.7 N/mm²	EN 14891–A.6.7
Water-resistance	no penetration	EN 14891–A.7
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 Certified 016825/06/RE
Conformity	CM O2P	EN 14891
Permeability to water vapour	Class I, SD < 5 m	EN ISO 7783-2
Carbon dioxide permeability	SD > 50 m	EN 1062-2
Capillary absorption and water permeability	w < 0,1 kg·m^{-2}·h$^{-0,5}$	EN 1062-3
Direct tensile adhesion strength	≥ 0.8 N/mm²	EN 1542
Conformity	1(PI), 2 (MC) e 8 (IR)	EN 1504-2

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

Warning

→ Product for professional use
→ abide by any standards and national regulations
→ do not add water, other binders or different additives to the mixture
→ protect surfaces from sunshine, wind, rain, frost and foot traffic
→ if necessary, ask for the safety data sheet
→ for any other issues, contact the Kerakoll Worldwide Global Service - info@kerakoll.ae