

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, ideal for use in GreenBuilding - Part A. Low CO₂ emissions and very low volatile organic compound emissions, recyclable as an inert material at the end of its life.

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.



ex idrobau/Eco



GREENBUILDING RATING®

Aquastop Flex
 - Category: Inorganic Mineral Products
 - Class: Organic Waterproofing Products
 - Rating: Eco 3

			CO ₂ /kg emission 217 g	Very low VOC emissions	Can be recycled as inert material

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

PRODUCT STRENGTHS

- High adhesion to absorbent and non-absorbent substrates
- High compatibility with cement-based adhesives in the H40® range
- High workability
- Floors and walls, for internal and external use
- Suitable for overlaying
- Constant crack-bridging even at low temperatures
- Suitable for the containment of water under positive-negative thrust

ECO NOTES

- Can be recycled as mineral inert material, avoiding waste disposal costs and environmental impact
- With very low volatile organic compound emissions

AREAS OF USE

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
- old flooring that is dimensionally stable and anchored to a ceramic 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 Primer A Eco eco-friendly, water-based surface insulation.

Do not use
 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.

Aquastop Flex Code: F115 2014/10 EN

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 gravel beds, 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, without letting any build-up of water occur.

When waterproofing monolithic tanks or swimming pools, grout the spacer holes using Kerabuild® Eco Epobond, 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 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. Use Idrojoint® 220 and Idrojoint® 220 Flex applied with Kerabuild® Eco Epobond to waterproof structural joints.

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 brush in fibre or by spraying. When waterproofing, apply the first coat and immediately insert Aquastop AR1. 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.

The subsequent laying of the covering should be carried out at least 24 hours after the last layer of SAS Technology adhesive has been applied - Shock Absorbing System from the H40® range, in case of low temperatures and high humidity, the waiting time before laying must be extended.

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

Residual traces of the product can be removed from tools with plain 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.

Walls waterproofed with Aquastop Flex: application of plaster/render. To facilitate adequate bonding of the plaster/render with the waterproofing layer, apply a wide rough coat with GeoLite® mineral geo-mortar.

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® Eco 3 two-component mineral membrane, such as Aquastop Flex by Kerakoll Spa applied in two coats for an overall coverage of $\approx 4 \text{ kg/m}^2$.

Swimming pools-Reservoirs-Basements: the waterproofing of swimming pools, reservoirs, and basements should be carried out with GreenBuilding Rating® Eco 3 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 $\approx 4.5 \text{ kg/m}^2$.

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/dm ³	UNI 7121
Coverage	≈ 1,6 kg/m ² 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 absorbcency level of the substrate and of the materials laid.

PERFORMANCE

VOC INDOOR AIR QUALITY (IAQ) - VOLATILE ORGANIC COMPOUND EMISSIONS

Conformity	EC 1-R plus GEV-Emicode	GEV certified 5023/11.01.02
HIGH-TECH		
Initial adhesion	≥ 1,5 N/mm ²	EN 14891–A.6.2
Adhesion after contact with water	≥ 0,7 N/mm ²	EN 14891–A.6.3
Adhesion after heat ageing	≥ 1,3 N/mm ²	EN 14891–A.6.5
adhesion after freeze-thaw cycles	≥ 0,7 N/mm ²	EN 14891–A.6.6
Adhesion on contact with lime water	≥ 0,8 N/mm ²	EN 14891–A.6.9
Adhesion on contact with chlorinated water	≥ 0,7 N/mm ²	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 Cert. 016824/06/RE
Conformity	CM 01P	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
- 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 +39 0536 811 516 - globalservice@kerakoll.com

The Eco and Bio classifications refer to the GreenBuilding Rating® Manual 2013. This information was last updated in August 2014 (ref. GBR Data Report - 09.14); 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.



KERAKOLL
The GreenBuilding Company

KERAKOLL S.p.a.
Via dell'Artigianato, 9 - 41049 Sassuolo (MO) Italy
Tel +39 0536 816 511 - Fax +39 0536 816 581
info@kerakoll.com - www.kerakoll.com