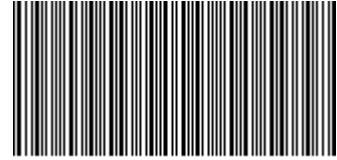




R-556413

Exoline® Aqua Stop C+



5060421890104

EXOLINE LTD

Unit22 Bulrushes Farm Coombe Hill Road
East Grinstead England RH19 4LZ
Company Number: 07853326
Phone: HU +3630 423 3558 – UK +447874736428
www.exoline.co.uk

TECHNICAL DATA SHEET USER GUIDE

Name of product: Exoline® Aqua Stop C+ (Produced with reliance on nanotechnology, this universal, hydrophobic additive comes in the form of a concentrated active ingredient in **1.6 kg** packaging units).

Version: 56/2018

Customs tariff number: 32149000



High-strength for the construction of **water-, frost- and fireproof concrete both indoors and outdoors with hydraulic binding.**

Spread	Portland Cement	Exoline Aqua Stop C+
380kg	50kg	1,6kg

0.2 m3 waterproof concrete

Consumption: 25 kg kb. 1,5 m2-re sufficient 1 cm thick

Water demand: approx. 68 – 72 litres

Benefits offered by the Exoline® product family. First and foremost, our products are compatible with all commercially available cement-based construction products! Contains **100%** natural base materials not harmful to health. No release of the material occurs by dissolution. Demolition of the concrete does not cause environmental pollution. Waterproof and water-repellent properties to increase insulation efficiency. Recommended for use where the building needs to be watertight and the goal is to find a simple, fast and permanent solution.

An important aspect is that the use of this product can replace other systems such as heavy sheets, plastic film, spreadable insulating materials and other technological solutions, which all increase the **risk, cost and time** of construction.

After mixing with water, the "concrete" made from the additive is suitable for the construction and reconstruction of the wearing and load-bearing surfaces of old and new, interior and exterior concrete surfaces to serve as the blinding or filling layers of concrete. Suitable for the construction of high-strength watertight layers without gaps and cracks. Advantages in comparison with conventional floor screed concrete: light, frost-resistant, watertight, heat-resistant with excellent thermal and sound insulation properties.

Fields of application. Construction and reconditioning of old and newly-constructed basements, basement floors, bases, pavements, light floor structures, balconies, rooms exposed to water, flat roofs, green roofs, underground parking garages, garages, tunnels.

For the watertight and frost-resistant construction of general concrete, building layers of concrete, base concrete for floor heating, thin bases, form blocks, sustaining walls, foundations, floor structures, crowning, pillars, stairs, surfaces exposed to weather and concrete pavement. For more information and additional possibilities of use log in to Facebook and go to **Exoline UK** or visit us at www.exoline.co.uk.

Also suitable for constructing concrete structures of new houses and subsequent repair of old concrete surfaces!

Can be used independently based on our formula or mixed with the products of other manufacturers (including acclaimed brands), such as:

- Concrete: C4, C6, C8, C12, C16, C20, C25, C30
- Cement floor screeds 20 – 30, cement floor screeds C-30 – C-25
- Self-levelling screeds for interior and exterior use 3 -15mm – 5 -20mm
- Base and wall screeds
- Dry concrete - Flex concrete – Repair and screed concrete

For information on dosing please call us at + + 44 7874736428

Surfaces created using Exoline® Aqua Stop C+ can be directly covered with tiles.

Type of the product: Manufactured hydrophobic additive in powder form.

Product properties – Advantages:

- Resistance to water, weather impacts and frost.
- For floors of hydraulic binding – Outdoor and indoor composition floors, in minimum
- 3 – 4 cm layer thickness depending on the design.
- It is easy and quick to integrate.
- Excellent wear resistance, as well as resistance to frost, oils and radiating heat.

Material composition: Consist of **Exoline®** additives and other rheological additives. It does not contain any asbestos or other mineral fibers, so it does not pose any harm to the health during placement, it contains fine silicogenic quartz powder forming additive and other property enhancers, as well as polymerized corrugated fiber “fibrin 23” hash.

Specific weight: 0.65l/kg

Specific surface: 25m²/g

Placement time: approx. 2 hours

Drying time: sets in approx. 24 hours at 20°C depending on weather conditions

Physical state: powder

Colour: grey

Application data for finished plastering

Fundamental properties:	Performance	Test standard
Maximum grain size:	approx. 4µ	EMI-TUV- SUD Kermi
Compressive strength class:	C16/22	Mélyépítő Labor Kft
General strength:	fc _m = 26,5N/mm ²	Mélyépítő Labor Kft
Bonding strength:	1,5 N/mm ²	EMI-TUV- SUD Kermi
Vapor diffusion factor:	> 10 (high vapor permeability)	EMI-TUV- SUD Kermi
Air content:	20%	EMI-TUV- SUD Kermi
Test pressure:	5 bar	Mélyépítő Labor Kft
Duration of water pressure:	72 hours	MSZ 4798: 2016

Water indentation:	1. 15 mm	”
	2. 22 mm	”
	3. 18 mm	”
Water tightness classification:	XV3 (H) exposure class	Mélyépítő Labor Kft
Frost resistance:	XF4 exposure class	: MSZ 4798: 2016
Sulphate resistance:	Compliant as per ASTM C88	

In-process control:

Tests performed in the factory's own laboratory, as well as the periodic inspection by **TÜV SÜD KERMI** certifies as per EU regulations that **Exoline® Aqua Stop C+** (additive) is in full compliance with the data presented in **R – 200570** Test report of **EMI TÜV-SÜD KERMI**, with the test results of the follow-up inspection as per standard **MSZ EN 998-1:2003**, as well as with the results of the **Civil Engineering Laboratory** test as per standard **MSZ 4798:2016**.

Placement temperature: Avoid laying it if the ambient and/or floor temperature is below 5°C, or over +25-26°C

Load capacity: suitable for walking after approx. 24–36 hours, depending on weather condition. These data are applicable with +20°C temperature and 50% relative humidity. Lower temperature increases, higher temperature decreases these periods.

Mixing instructions: I.

Formula recommended by **EXOLINE®**: **50kg** cement + **1.6kg** Exoline Aqua Stop + **380kg** gravel + **~34 litres** water

- I. First use a mixing tub to mix 50kg **cement** and one 1.6kg plastic bag of **Exoline® Aqua Stop C+** until you get a homogenous mixture. (Recommended cement grades to achieve proper quality: 42.5/l composite in winter and 32.5/l composite in summer),

Next step subject to quality:

- II. Mix **1 volume** (shovel) of **cement** mixed with **Exoline®** additive and **3 volumes** (shovels) of clay- and sludge-free **gravel** (grain size: **~ 0.5 – 1.25 – 2.5 mm**) **“DRY”** for approx. **3 - 5 minutes** depending on the quality of the cement mixer. After dry mixing, mix the dry concrete with water. Water quantity: 0.5 volume of mixing water as normally used (8-9 litres of water for ~100kg). Mix for min. **3 - 6 minutes** to get a lump-free mixture.

Mixing instructions: II.

- I. **First:** Mix the ingredients **“DRY”** in a concrete mixer with a capacity of one or more barrows by adding one measuring cup (1dl) or (**~20kg**) of **Exoline® Aqua Stop C+** to each 25kg bag of commercially available dry concrete produced by any manufacturer. The content of the bag (**1.6kg**) is sufficient for adding to **~ 8** bags of **25kg** product.
- II. **Second:** Mix the ingredients **“DRY”** for 3 -5 minutes to get a homogeneous mixture.
- III. After dry mixing, mix the dry concrete with water. Water quantity: as normally used (approx. 0.5 volume of mixing water). Mix for min. 3 - 6 minutes to get a lump-free mixture. Simple preparation, user-friendly placement.

Surface preparation: The surface must be solid, flat, load-bearing, shrink-free, crack-free, clean and free from dust, tar, oil and wax. The surface must be free from any residue inhibiting adhesion. Clean the surface of the old concrete. Remove loose and crumbling surfaces by chiselling to reach the undamaged concrete. Roughen and wash the undamaged concrete.

Remove any old coatings not firmly adhering. Use a deep primer depending on the absorbency of the base surface!

Dilatation: Must be performed in compliance with the applicable construction standards, subject to the degree of dilation affecting the existing building.

Placement temperature: Depending on the weather, above +28°C it is recommended to spray (water) the concrete for a few days every 2-3 hours after processing. Sudden drying may result in a significant decrease in the quality of the product. Recommended laying temperature: between +5°C and +25°C. After-treatment of the concrete is not or only partly necessary below +20°C in humid and wet weather conditions/areas.

Surface preparation: The surface must be solid, flat, load-bearing, shrink-free, crack-free, clean and free from dust, tar, oil and wax. The surface must be free from any residue inhibiting adhesion. Clean the surface of the old concrete.

Remove loose and crumbling surfaces by chiselling to reach the undamaged concrete. Roughen and wash the undamaged concrete. Remove any old coatings not firmly adhering. Use a deep primer depending on the absorbency of the base surface!

Dilatation: Must be performed in compliance with the applicable construction standards, subject to the degree of dilation affecting the existing building.

Placement temperature: Depending on the weather, above +28°C it is recommended to spray (water) the concrete for a few days every 2-3 hours after processing. Sudden drying may result in a significant decrease in the quality of the product. Recommended laying temperature: between +5°C and +25°C. After-treatment of the concrete is not or only partly necessary below +20°C in humid and wet weather conditions/areas.

Placement time: approx. 3-4 hours depending on outside circumstances.

After-treatment: The completed surface must be protected from quickly drying out, especially in the case of exterior applications and in warm weather. Recommended operations: watering, spraying or covering. The instructions are compulsory. In the event of non-compliance, the proper functioning of the product cannot be guaranteed.

Drying time: Depending on weather conditions, the product will be hard enough to be stepped on in approx. 24 hours at 20°C. Full curing time: 28 days.

Mixing: It is recommended to use concrete mixers at low speed, by tilting the mixing drum to 35 degrees.

Tool cleaning: With water, before mortar consolidation.

Technical data: As per EN, the technical data of the product are classified into:

LB-EN:206-1

EN-LC8/9-1.2

Equipment need: wooden tools are recommended for troweling

Technical specification:

Manufacturer's declaration pertaining to construction products regulated by harmonized standards: testing by EMI TUV SUD Kermi according to standard **MSZ EN 998-1:2003** and Civil Engineering Laboratory Testing according to standard **MSZ 4798:2016**. **Water-tightness:** classified into exposure class XV3(H) (**vz5**) according to the requirements of standard **MSZ 4798:2016**. **Frost resistance:** exposure class XF4 (**standard MSZ 4798:2016**).

Place of origin: **EU**

Safety regulations: When working with our products, the most important physical, safety engineering, toxicological and ecological data are included in the safety data sheet pertaining to the product. Always comply with the instructions for hazardous substances.

Label elements:

Components determining hazards: calcium hydroxide

Hazard statements

H315 Causes skin irritation.

H318 May cause serious eye damage.

P102 – Keep out of reach of children. **P280** – Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338+P310 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.

P302+P352+P333+P313 – IF ON SKIN: Wash with soap and plenty of water. If skin irritation or rash occurs, get medical attention.

P261+P304+P340+P312 – Avoid breathing dust. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.



Disposal as waste: P501 – Dispose of contents to waste disposal site as required by Act CLXXXV of 2012 on Waste (as amended) and its implementing regulations. Hazardous waste, residue EWC code: 16 03 03*, contaminated packaging EWC code: 15 01 10*.

Component determining hazard: approx. 25wt% Portland cement clinker (EINECS number: 266-043-4) water-soluble **Cr (VI)** content ≤ 2 ppm

Package: net 25kg \pm 2% plaster packed in multilayer paper sacks

Fire hazard class: A1

Manufacturer's warranty. If used properly: **10 years.**

Shelf life: If kept in the original package: **36 months** from the production date.

Produced and distributed by **EXOLINE LTD** Unit22 Bulrushes Farm Coombe Hill Road East Grinstead England RH19 4LZ * Company Number: 07853326

Hungary

Name and address of authorized representative (s):

- **Nterworld Kft** 5800 Mezőkovácsháza, Árpád u 247sz. **vat number:** HU14641930

Person signing in the name and on behalf of the manufacturer:

FERENC SÁRI

Director

Exoline Ltd, United Kingdom

2019.01.24

