

EXOLINE® AQUA STOP C+C

Factory pre-mixed watertight and frost-resistant concrete | MSZ EN 206:2013+A2:2021



TECHNICAL DATA SHEET

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MANUFACTURER:

Exoline Ltd. | Office 5, The Round House, Dormans Park Road, East Grinstead, England RH19 2EN

EU AUTHORISED REPRESENTATIVE:

Baumidex Kft. | HUNGARY 8400 Ajka, Industrial Park, Northern Sector 3/1

BASIC PRODUCT DATA:

Customs tariff code: 3824 40 00
Standard: MSZ EN 206:2013+A2:2021
Pack sizes: 25 kg, 500 kg, 1000 kg
Shelf life: 12 months

1. PRODUCT DESCRIPTION

Exoline® Aqua Stop C+C is a factory pre-mixed, cement-based, hydraulically setting dry composite concrete that contains the special **ExoBase™** hydrophobic technological admixture system. The product is ready to use, suitable for interior and exterior application, and is a hydrophobic, watertight and frost-resistant dry concrete mix in accordance with MSZ EN 206:2013+A2:2021. The **ExoBase™** microstructure-modifying admixture system reduces the capillary water absorption of the concrete, improves watertightness and increases the durability and frost resistance of the concrete. After mixing with water it forms a high-strength, watertight and frost-resistant concrete layer. **Exoline® Aqua Stop C+C** concrete can in many cases replace conventional waterproofing technologies: trowel-applied membranes, bituminous sheets, liquid-applied membrane systems and multi-layer waterproofing systems.

2. PRODUCT IDENTIFICATION

Product name	Exoline® Aqua Stop C+C
Product type	Hydraulically setting watertight and frost-resistant dry concrete mix
Format	Powder-form dry concrete mix (one-component)
Customs tariff code (HS)	3214 90 00
Harmonised standard	MSZ EN 206:2013+A2:2021 - Concrete (XF4/W0/XA1)
Fire class	A1 (non-combustible)
CE marking	Yes
EAN	5060421890135

3. TECHNICAL DATA (MSZ EN 206:2013+A2:2021)

Physical state	Powder (dry concrete mix)
Colour	Grey
Components	One-component
Binder	Portland cement (CEM I/II)
Fire class	A1
Capillary water absorption (W_0)	0.1 kg/(m ² ·min ^{0.5})
Vapour diffusion resistance factor	$\mu > 10$
Air content	≈ 20 %
Compressive strength (C30/37)	≥ 40.0 MPa
Flexural strength	≥ 4.0 MPa
Bond strength	≥ 0.6 MPa
Water penetration	XV3 (H), max. 15 mm - EN 12390-8
Frost resistance	XF4 - EN 206
Min. layer thickness	≥ 30 mm (≥ 20 mm for refurbishment)
Material consumption	≈ 20 - 22 kg/m ² /cm
Working time	≈ 40 minutes (at 20 °C)
Mixing	Low-speed concrete mixer, max. 600 rpm, min. 5 minutes

Note: The values given are reference values, determined on the basis of MSZ EN 206:2013+A2:2021 and of the manufacturer's tests. Actual values may vary from batch to batch within the limits of quality-control tolerances. Sulphate (ASTM C88), acid and alkali resistance are verified by the manufacturer's tests.

4. COMPOSITION AND DECLARATION

Exoline® Aqua Stop C+C consists of the following components:

- Portland cement (CEM 42/II) - binder
- Graded sand
- Rheological admixtures - workability and compactness
- **ExoBase™** hydrophobic technological admixture - reduces capillary water absorption, increases watertightness
- Property-enhancing admixtures - durability, abrasion resistance, frost resistance

The product contains no asbestos or mineral fibres. The material is biocompatible, non-radioactive and resistant to sulphates (ASTM C88), acids and alkalis. REACH-compliant composition.

5. FIELD OF APPLICATION AND BENEFITS

TYPICAL FIELDS OF APPLICATION

- Cellars, cellar floors and basement screeds
- Balconies, terraces and flat roofs (green roofs)
- Garages, underground car parks and industrial floors
- Tunnels, shafts and transport structures
- Retaining walls, foundation slabs and water tanks

OTHER APPLICATIONS

- Blinding concrete and underfloor-heating screed
- Pavements, steps and paved concrete areas
- Formwork-block and pillar structures
- Repair of worn or damaged concrete surfaces (from ≥ 20 mm)
- Heavy-duty industrial surfaces (up to 150 mm with a suitable base layer and reinforcement)

KEY BENEFITS

- High compressive strength: ≥ 40.0 MPa (concrete class C30/37)
- Excellent watertightness: XV3(H) performance, max. 15 - 18 mm water penetration
- XF4 frost resistance class - for extreme weather conditions
- **ExoBase™** technology - reduced capillary water absorption
- Sulphate-, acid- and alkali-resistant - also suitable for aggressive environments
- Suitable for both manual and machine placing - long service life

6. SURFACE PREPARATION AND APPLICATION

SURFACE PREPARATION

- The substrate must be sound, load-bearing and free of dust, oil and grease
- Loose concrete and coatings must be completely removed
- For refurbishment, the surface must be mechanically roughened and washed down with water
- Before concreting, the substrate must be thoroughly pre-wetted (but must not be glistening wet)

MIXING AND PLACING

- Mixing method: low-speed concrete mixer (max. 600 rpm)
- Mixing time: min. 5 minutes; re-mix for 2 minutes before placing
- Placing: by hand or with a concrete pump; compaction with a vibrator is recommended
- Recommended layer thickness: ≥ 30 mm (≥ 20 mm for refurbishment, up to 150 mm for industrial use)
- Working time: approx. 40 minutes at 20 °C (shorter at higher temperatures)
- Surface finishing: with a steel or wooden float, as required

AFTER-CARE AND PROTECTION

- At temperatures above +25 °C, keep damp by spraying with water for at least 3-5 days
- Must be protected from: direct sunlight, draughts, frost and driving rain
- Application temperature range for fresh concrete: +5 °C ... +25 °C

7. HEALTH, SAFETY AND ENVIRONMENT

Product name	Exoline® Aqua Stop C+C
CLP classification	Skin Irrit. 2 (H315), Eye Dam. 1 (H318)
Hazard statements	H315: Causes skin irritation H318: Causes serious eye damage
Precautionary statements	P260, P280, P305+P351+P338, P302+P352
VOC content	<1 g/l (in powder form: 0)
REACH compliance	Yes (Regulation (EC) No 1907/2006)
SDS availability	exoline@exoline.co.uk / manufacturer's safety data sheet

Exoline® Aqua Stop C+C contains cement. On contact with water, cement forms an alkaline (pH > 12) solution which may cause skin and eye irritation. Classification according to the EU CLP Regulation (EC) No 1272/2008:

MANDATORY PERSONAL PROTECTIVE EQUIPMENT (PPE)

- Protective gloves - nitrile or neoprene gloves to EN ISO 374
- Eye protection - closed safety goggles to EN 166
- Dust mask - FFP2 category (EN 149)
- Protective clothing - long-sleeved, dust- and liquid-resistant workwear

ENVIRONMENTAL REQUIREMENTS

- The set material is neutral, non-hazardous waste - it may be handled as normal construction waste
- Liquid residues must not be discharged into drains or surface waters
- Waste management: EWC 17 01 01 (concrete) - in accordance with local regulations

8. STORAGE, TRANSPORT AND PACKAGING

Pack sizes	25 kg bucket or bag 500 kg big bag 1000 kg big bag
Storage conditions	In a dry place protected from the weather, between 5-35 °C
Shelf life	12 months in unopened packaging
Transport classification	Non-hazardous goods (for ADR/RID purposes)
Tool cleaning	With water before setting; after setting only mechanically

9. EU CONFORMITY AND APPLICABLE STANDARDS

Basis of CE marking	Regulation (EU) No 305/2011 Construction Products Regulation (CPR)
Harmonised standard	MSZ EN 206:2013+A2:2021 - Concrete (XF4 frost resistance, W0 watertightness class)
Declaration of Performance (DoP)	EXO-ASCC-006-25KG Issued by: Exoline Ltd.
REACH	Compliance with Regulation (EC) No 1907/2006 is ensured
CLP	Regulation (EC) No 1272/2008 - classification, packaging, labelling
Biocides (BPR)	Not relevant - the product contains no biocidal active substance
RoHS	Not relevant - not an electrical/electronic product

10. LEGAL DISCLAIMER AND LIABILITY

This Technical Data Sheet is based on the current technical knowledge and experience of Exoline Ltd. The data derive from tests carried out under laboratory conditions. Actual performance may depend on the conditions of application, on the substrate and on the quality of preparation.

Exoline Ltd. accepts no liability for damage resulting from improper use or from application not carried out in accordance with the instructions. Correct application, compliance with the instructions and conformity with local building regulations are the responsibility of the user.

This Technical Data Sheet may be copied and attached to other project documents; the document so created may not, however, modify or replace the requirements of the Technical Data Sheet valid at the time of use of the **Exoline®** product.

The manufacturer reserves the right to modify the technical data, the composition and the product specifications without prior notice. Always use the current, valid data sheet.

The latest version is available at www.exoline.co.uk.

EXOLINE LTD

Office 5, The Round House, Dormans Park Road,
East Grinstead, England, RH19 2EN

 +44 79 040 28 064

 www.exoline.co.uk

 exoline@exoline.co.uk

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SIGNATURE


Sári Ferenc
Founder & CEO, Exoline Ltd.