EXOLINE®
AQUA STOP B+

Vapour- and watertight plaster additive

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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: 3214 90 00
Standard: EN 934-2 - Admixtures for concrete and mortar
Packaging: 2.4 kg
Shelf life: 36 months

1. PRODUCT DESCRIPTION

The **Exoline® Aqua Stop B+** is a premium, **ExoBase™** nanotechnology-developed waterproof and vapour-tight additive for cement-based plasters. Suitable for both interior and exterior use where durable, high-performance moisture protection is required. The active hydrophobic and pore-blocking effect of the plaster made with the product drastically reduces capillary water absorption and prevents water penetration – against both positive and negative side water pressure. The resulting layer forms a dense, monolithic watertight structure that protects the building structure from moisture damage in the long term.

Key benefits:

- Effective protection against positive and negative water pressure
- Outstanding adhesion on various masonry substrates
- Full compatibility with commercially available cement-based systems

2. PRODUCT IDENTIFICATION

Product name	Exoline® Aqua Stop B+
Product type	Hydrophobic plaster additive for cement-based plasters
Form	Powder additive (one-component)
Customs tariff code (HS)	3214 90 00
Harmonised standard	MSZ EN 998-1:2016
Fire class	A1 (non-combustible)
EAN	5060421890050

3. TECHNICAL DATA (MSZ EN 998-1 - MANUFACTURER'S REFERENCE)

Physical state	Powder (hydrophobic additive)
Colour	Grey
Components	One-component
Binder	**ExoBase™** nanotechnology component
Fire class	A1
Dosage	~ 1 kg / 100 kg dry plaster mix, depending on the fine-particle content.

4. TECHNICAL DATA - FOR THE PLASTER MADE WITH THE ADDITIVE

The technical performance of the finished plaster depends on the formulation used, the raw materials and the site conditions.

Capillary water absorption (W)	≤ 0.2 kg/(m²·min$^{0.5}$) (on finished plaster)
Water vapour diffusion resistance factor	μ > 10
Air content	~ 20 % (in finished plaster)
Working time	~ 2 hours (at +20 °C)
Initial set	~ 24 hours (+20 °C)
pH (in the mix)	~ 11.5
Min. layer thickness	20 - 30 mm (finished plaster)
Consumption	≈ 15 - 16 kg/m²/cm (finished plaster)
Processing time	≈ 2 hours (at +20 °C)
Mixing	Low-speed mixer, 3-6 minutes dry, then 3-6 minutes with water

Note: The values given are manufacturer's reference values based on the MSZ EN 998-1 standard. The actual performance of the finished plaster depends on the formulation, the raw material and the site conditions. Actual values may vary from batch to batch.

5. COMPOSITION AND DECLARATION

The Exoline® Aqua Stop B+ contains the following components (2.4 kg/pack):

- **ExoBase™** hydrophobic active ingredient - the main active component providing water repellency and reducing capillary water absorption
- Cement-based, polymer-modified adhesion-improving binder - to increase adhesion between the plaster and the substrate and to distribute the active ingredient evenly

The product contains no asbestos, mineral fibres, formaldehyde or VOCs. The material is biocompatible and non-radioactive. REACH-compliant composition. Adding lime to the finished plaster is not recommended.

6. FIELD OF APPLICATION AND BENEFITS

COMPATIBLE SUBSTRATES

- Brick masonry - full compatibility
- Concrete surfaces - interior and exterior use
- Natural stone and mixed masonry
- Cement-bound plasters and mortars
- Concrete and block brick masonry

SOME TYPICAL AREAS OF USE

- Plastering of masonry exposed to water and moisture loads
- Surface protection of cellars, foundation walls and plinth structures
- Plastering of building structures exposed to ground moisture
- Plaster systems for bathrooms and wet rooms
- Structures exposed to positive and negative side water pressure (with an appropriate layer build-up)

KEY BENEFITS

- Significantly reduces the capillary water absorption of the plaster
- Provides hydrophobic properties throughout the full cross-section of the plaster
- Preserves the vapour permeability of the plaster
- Contributes to the durable water protection of masonry
- Compatible with most cement-bound plaster and mortar systems
- Can be applied by machine or hand plastering technology - long-life system

7. SURFACE PREPARATION AND PROCESSING

SURFACE PREPARATION

- The substrate must be sound, load-bearing and free from dust, oil and grease
- Loose, crumbling areas, salt efflorescence and damaged plaster must be completely removed
- A sound, properly prepared substrate must be ensured
- Before plastering, the surface must be thoroughly pre-wetted (but must not be glistening wet)

MIXING AND APPLICATION

EXOLINE® RECOMMENDED PLASTER FORMULATION

Sand	Portland cement	Exoline® Aqua Stop B+
130 kg graded (0/3mm - 0/4mm coarse layer - 0/2mm smoothing layer)	**25 kg**	**2.4 kg**
After mixing: 158 kg ~ 9 m^2 / 1 cm finished plaster		

Mixing instructions I.: 25 kg Portland cement + 2.4 kg **Exoline® Aqua Stop B+** + 140 kg sand, after mixing, gives ~ 168 kg ~ 9 m^2/1cm finished plaster

First: Mix the 25 kg cement and the contents of the 2.4 kg **Exoline® Aqua Stop B+** plastic bucket "DRY" in a mixing trough until homogeneous. (In winter the recommended cement grade is 42.5/II composite, while in summer 32.5/II composite is the right choice to ensure good quality!)

Then, taking the quality into account:

Second: 1 volume (shovel) of **Exoline®** additive-mixed cement and (as required) 3 - 4 volumes (shovels) of "general-purpose" sand (clay- and silt-free, available at builders' merchants and quarries), repeating the dosing in the normal way, mixed "DRY" until homogeneous for approx. 3 - 6 minutes depending on the quality of the concrete mixer. For excellent quality, use dried, graded sand with a particle size of 0.5 mm.

Third: After dry mixing, mix the plaster with the amount of water used in the normal procedure (approx. 5 - 6 litres) for at least 3-6 minutes until lump-free.

Mixing instructions: II. Exoline® recommendation:

Exoline® Aqua Stop B+	Mixed into any commercially available base plaster
1 x 2.4 kg per 4 x 25 kg	
After mixing: 100 kg ~ 7 m^2 / 1 cm of vapour- and watertight plaster is obtained	

First: Add the **Exoline® Aqua Stop B+** additive to any commercially available 25 kg hand-applied base plaster. (The contents of the 2.4 kg plastic bucket can be dosed into 4 x 25 kg bagged products.)
Second: Mix the components "DRY" until homogeneous for 3 - 6 minutes.

Third: After dry mixing, mix the plaster with the amount of water used in the normal procedure (approx. 5-6 litres) for at least 3-6 minutes until lump-free.

APPLICATION TEMPERATURE:

Depending on the weather, above 25°C the plaster should be sprayed (watered) every 2-3 hours for a few days after application. Rapid drying can greatly impair the quality of the product. Recommended application period between + 5°C and +25°C. Below +20°C, in humid, damp weather or areas, after-care of the plaster is not necessary or only partly necessary.

PREPARATION OF THE WALL SURFACE:

- Crumbled, defective stone and brick pieces must be chiselled away down to the sound material.
- At the plinth, clean the wall above the damp zone to a height of three times the wall thickness.
- It is recommended to knock the existing damaged plaster off down to the brickwork and to rake out the joints to a depth of a few cm.
- Old coatings that are not firmly bonded, as well as salt deposits, must be removed.
- Coat the cleaned surface with a deep primer.

APPLICATION:

- The mortar must be applied in at least three layers: a well-bonding spatter coat (GUZ), a base (coarse) layer and a smoothing layer. The spatter coat (GUZ) must be prepared from the same material with a thinner consistency.
- The base (thicker) layer must be applied after the spatter coat has stiffened. The material must be of a soft but not fluid consistency. It is applied with a trowel, then, after even spreading, smoothed with a wooden or plastic float. The use of a metal float is prohibited, as it closes the pores and impairs the performance of the system.
- The total thickness of the three-layer plaster system must be at least 20-30 mm everywhere.
- If a greater layer thickness is required, the plaster must be built up in several stages. A further layer may only be applied after the previous layer has stiffened.
- The drying time of the plaster depends on the moisture content of the receiving surface and on the ambient and weather conditions.

AFTER-CARE AND PROTECTION

- At temperatures above +25 °C, after-care is recommended (light wetting for a few days)
- Must be protected from: direct sunlight, draught, frost and driving rain
- Recommended application temperature: +5 °C … +25 °C | Rapid drying can impair the quality of the plaster

8. HEALTH, SAFETY AND ENVIRONMENT

Product name	**Exoline® Aqua Stop B+** (adsorbent)
CLP classification	Not classified as a hazardous mixture
pH (with water)	11.5
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

Additional note: The **Exoline® Aqua Stop B+** contains calcium peroxide-based oxidative components. On contact with moisture a slightly alkaline medium (pH ≈ 11.5) may form, therefore the general occupational safety rules should be observed during processing.

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT (PPE)

- Protective gloves - nitrile or neoprene gloves to EN ISO 374
- Safety goggles - closed safety goggles to EN 166
- Dust mask - FFP2 category (EN 149 standard)

ENVIRONMENTAL REQUIREMENTS

- The hardened material is neutral, non-hazardous waste - it can be handled as normal construction rubble
- Liquid residues must not be discharged into drains or surface waters
- Waste management: In accordance with local regulations

9. STORAGE, TRANSPORT AND PACKAGING

Pack sizes	2.4 kg bucket / plastic bag
Storage conditions	Dry, in original unopened packaging, between 5-35 °C
Shelf life	36 months in unopened packaging
Transport classification	Not dangerous goods (for ADR/RID purposes)
Tool cleaning	With water before setting; after setting only mechanically

10. LEGAL NOTICE 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 application conditions, the substrate and the quality of preparation.

Exoline Ltd. accepts no liability for damage arising from improper application or 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; however, the document so created may not 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 on the www.exoline.co.uk website.

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.