

# EXOLINE® AQUA STOP A+

Waterproofing and wall-drying plaster additive



## TECHNICAL DATA SHEET

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### MANUFACTURER:

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### EU AUTHORISED REPRESENTATIVE:

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

### BASIC PRODUCT DATA:

Customs tariff code: 32149000

Standard: MSZ EN 998-1

Fire class: A1

Packaging: 2.4 kg

Shelf life: 36 months

## 1. PRODUCT IDENTIFICATION

|                          |                                                                              |
|--------------------------|------------------------------------------------------------------------------|
| Product name             | Exoline® Aqua Stop A+                                                        |
| Product type             | Hydrophobic waterproofing and wall-drying additive for cement-based plasters |
| Form                     | Powder additive (one-component)                                              |
| Customs tariff code (HS) | 3214 90 00                                                                   |
| Harmonised standard      | MSZ EN 998-1:2016 compatible system                                          |
| Fire class               | A1 (non-combustible)                                                         |
| EAN                      | 5060421890005                                                                |

## 2. PRODUCT DESCRIPTION

The **Exoline® Aqua Stop A+** is a special **ExoBase™** technology-based hydrophobic additive for cement-based plasters, used for the preparation of interior and exterior wall-drying and moisture-reducing plasters.

The plaster made with the additive reduces capillary water absorption while preserving the vapour permeability of the plaster, thereby promoting the natural drying of damp masonry. The system helps to reduce the risk of salt efflorescence and mould formation, and improves the durability of the plaster.

The **Exoline® Aqua Stop A+** is compatible with most cement-based plasters and mortars, so it can be used in mixes prepared to a bespoke formulation or as an additive to factory-produced base plasters.

### 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         | ~ 0.85 - 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 ( $W_0$ )     | $\leq 0.2 \text{ kg}/(\text{m}^2 \cdot \text{min}^{0.5})$ (on finished plaster) |
| Water vapour diffusion resistance factor | $\mu > 10$                                                                      |
| 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/m <sup>2</sup> /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 A+ 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
- Adobe-based masonry (preliminary testing recommended)
- Concrete and block brick masonry

## TYPICAL AREAS OF USE

The plaster made with the additive is suitable for:

- plastering the masonry of old and newly built buildings
- renovating damp masonry
- plastering cellar walls, plinths and foundation walls
- treating masonry affected by ground moisture and capillary damp
- wall-drying plaster systems on interior and exterior surfaces

In use, the plaster ensures the **vapour balance of the structure**, while reducing the moisture uptake of the masonry.

## TYPICAL APPLICATIONS

- Wall-drying plasters for residential buildings
- Renovation of historic buildings
- Plastering of cellar walls and plinths
- Subsequent treatment of damp masonry
- Structures affected by ground moisture

## KEY BENEFITS

- Reduces capillary water absorption - verifiable in accordance with EN 998-1
- Preserves the vapour permeability of the plaster - the masonry "breathes"
- Can reduce the formation of salt efflorescence and surface damp
- Compatible with commercially available cement-based construction products
- Can contribute to the drying of damp masonry with an appropriate layer build-up
- Can be applied by machine or by hand - long service life

## 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 A+ |
|-----------------------------------------------------------------|-----------------|-----------------------|
| 140 kg                                                          | 25 kg           | 2.4 kg                |
| After mixing: 168 kg ~ 9 m <sup>2</sup> / 1 cm finished plaster |                 |                       |

**Mixing instructions I.:** 25 kg Portland cement + 2.4 kg **Exoline® Aqua Stop A+** + 140 kg sand, after mixing, gives ~ 168 kg ~ 11 m<sup>2</sup>/1cm finished plaster

**First:** Mix the 25 kg cement and the contents of the 2.4 kg **Exoline® Aqua Stop A+** 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:**

|                                                                     |                                                    |
|---------------------------------------------------------------------|----------------------------------------------------|
| <b>2.4 kg</b>                                                       | <b>Exoline® Aqua Stop A+</b>                       |
| <b>5 X 25 kg</b>                                                    | Mixed into any commercially available base plaster |
| After mixing: 125 kg ~ 7 - 8 m <sup>2</sup> / 1 cm finished plaster |                                                    |

**First:** Add the **Exoline® Aqua Stop A+** additive to any commercially available 25 kg hand-applied base plaster. (The contents of the 2.4 kg plastic bucket can be dosed into 5 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.

#### APPLICATION:

- The mortar must be applied in at least two layers: a well-bonding spatter coat, followed by a coarser layer. The spatter coat should be made from a more fluid mortar
- The thicker mortar layer must be applied once the spatter coat has hardened. The thick layer consists of a soft-consistency mortar, which should be thrown onto the surface with a trowel, spread out and then smoothed with a wooden float (do not use a metal float, as this would close the pores). The total thickness of the two layers must be at least 2 cm everywhere.
- If the required layer thickness needs to be greater than 2 cm, a further layer may be applied after the previous layer has stiffened. The drying of the plaster depends on the wall surface and the weather.

#### 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

|                           |                                                          |
|---------------------------|----------------------------------------------------------|
| <b>Product name</b>       | Exoline® Aqua Stop A+ (adsorbent)                        |
| <b>CLP classification</b> | Not classified as a hazardous mixture                    |
| <b>pH (with water)</b>    | 11.5                                                     |
| <b>VOC content</b>        | <1 g/l (in powder form: 0)                               |
| <b>REACH compliance</b>   | Yes (Regulation (EC) No 1907/2006)                       |
| <b>SDS availability</b>   | exoline@exoline.co.uk / manufacturer's safety data sheet |

**Additional note:** The **Exoline® Aqua Stop A+** contains calcium oxide-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

|                                 |                                                            |
|---------------------------------|------------------------------------------------------------|
| <b>Pack sizes</b>               | 2.4 kg bucket / plastic bag                                |
| <b>Storage conditions</b>       | Dry, in original unopened packaging, between 5-35 °C       |
| <b>Shelf life</b>               | 36 months in unopened packaging                            |
| <b>Transport classification</b> | Not dangerous goods (for ADR/RID purposes)                 |
| <b>Tool cleaning</b>            | 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](http://www.exoline.co.uk) website.

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