

EF-ONE™

ANTI EFFLORESCENCE WATER BASED IMPREGNATING SEALER

EF-ONE™ is a premium quality liquid additive formulated for bulk-impregnating cement-based building materials. It is a water-based and VOC-free solution that protects against efflorescence and dampness.

This innovative product creates a hydrophobic molecular structure within the pores of cured concrete without causing any blockages or obstructions. As a result, it significantly reduces water absorption while allowing controlled moisture release. **EF-ONE™** affords bulk impregnation capabilities to safeguard concrete throughout its entirety, ensuring optimal performance even in high-traffic areas or under stress caused by movement cracks.

USES

- Balconies
- Bathroom Tiles
- Natural Stone Paving
- Brickwork
- Stonemasonry
- Pool Surrounds
- Renders
- Concrete
- Freeze Protection
- Pre-fab Blocks and Pavers
- Impregnating Sealer for Masonry Finishes

WHY USE EF-ONE™?

This product is an excellent supplementary barrier to waterproofing systems, promoting drier and healthier wet areas. It also provides comprehensive efflorescence protection for tiling systems, compatible with tile beds, adhesive and grout.

This eliminates the need for installing a secondary membrane, resulting in cost savings of around 80% and faster construction times. The product effectively safeguards against picture framing and crypto efflorescence in stone, brick and concrete. Moreover, it is water-based and environmentally friendly, with zero VOC emissions.

Its concentrated formula can be diluted up to 100 times to minimize plastic waste and transport impacts. It also prevents absorption of dampness, salt attack, and frost attack while invisibly impregnating the entire concrete mass without adversely affecting adhesion or finishes such as paint or adhesives. Additionally, it is permeable to vapour and UV stable with good workability that enhances curing capabilities.



PRODUCT DATA SHEET: CLEANERS AND SEALERS: EF-ONE®

PREPARATION AND MIXING

Kindly consult the appropriate recommendations for each application type. It is the user's responsibility to evaluate this product's appropriateness for any intended use. **EF-ONE™** is intended solely for usage by qualified experts, and installation must adhere to relevant building codes. We highly recommend using a measuring jug to ensure precise batching, leading to optimal performance and cost-effectiveness. **EF-ONE™** should be mixed with 100 parts water; in several instances, gauging water can be prepared with **EF-ONE™** before mixing it with dry ingredients. This approach is not advisable for a "dry mixture" such as a screed, particularly when the sand already possesses moisture. It is recommended to use a mechanical screed mixer and add **EF-ONE™** directly to the mix at a concentration of 0.001% of the mixer's capacity, which equates to 100mls of **EF-ONE™** per 100 litres of screed for a ratio of 1 litre per cubic metre. Additional clean water may be included as indicated in our comprehensive instructions on page one to achieve the preferred consistency. It is imperative to ensure uniform additive distribution by providing thorough mechanical mixing.

GENERAL INSTRUCTIONS – WHEN ALL AGGREGATES ARE DRY

1. It is imperative to utilize cement of Type GP.
2. It is recommended to shake the container thoroughly before use.
3. The necessary and required quantity of gauging water should be readied in a clean container, maintaining a proportion of 1 portion of **EF-ONE™** to 100 portions of uncontaminated tap water.
4. Incorporate the pre-mixed gauging water with the dry constituents of concrete and follow standard procedure.
5. Ensuring that all supplementary water introduced into the mixture includes **EF-ONE™** is imperative.
6. Maintaining a consistent air temperature from 4°C to 35°C is imperative while installing and curing the material.
7. To prevent early drying of the concrete, it is recommended to shelter it from direct sunlight and damp conditions during the curing process. Additionally, it is advisable to avoid exposing the concrete to rain for at least a day following installation.
8. It is advisable to cleanse tools using water.
9. It is recommended that those in charge of a project perform a water test 24 hours after application. Upon successful impregnation with **EF-ONE™**, the mortar and concrete will demonstrate a notable beading action.

GENERAL INSTRUCTIONS

1. The surfaces must be both clean and dry.
2. Shake the container thoroughly before use.
3. Proceed to prepare the necessary amount of sealer in a pristine bucket, observing a ratio of 1 part **EF-ONE™** to 9 parts uncontaminated tap water.
4. When applying to horizontal surfaces, employ a bucket and soft bristle broom. Conversely, for walls, start from the bottom and work upwards in a horizontal fashion with the aid of a manual air pressure sprayer.
5. To ensure deep absorption, it is recommended that one applies the product "wet on wet" or "flood coated".
6. The recommended coverage for standard concrete is 5 square meters per litre of thinned sealer, while the suggested coverage for standard render and permeable brickwork is 3 square meters per litre.

7. Another method to pre-seal masonry units is through dip sealing, which involves immersing them in a bath or tray.
8. Ensure that any extra pools of sealer on the surface are evenly spread using a brush or cloth before solidifying.
9. Wait for at least four hours for the sealer to dry completely, and avoid exposing it to rain during this time. The ambient temperature must fall within the range of 4°C and 35°C.

LIMITATION

This product does not exhibit efficacy towards all types of stains.

HANDLING AND STORAGE

- **EF-ONE™** is conveniently offered in jerry cans of 1 litre and 4 litres.
- It does not fall under the category of hazardous goods and is deemed safe for transportation through postage and air freight.
- The recommended shelf life of **EF-ONE™** can be up to 12 months when stored in its original, loosely sealed packaging, away from direct sunlight, and at moderate temperatures, **EF-ONE™** remains usable for at least two years.
- However, exposing it to temperatures below 0°C or above 45°C may cause irreparable damage. The product's usability should be confirmed before use in case of suspected frost or heat damage.
- If diluted with tap water, **EF-ONE™** can be stored briefly for later use; however, contaminants such as algae may begin to affect the mixture within a few weeks visibly.
- Waste chemicals must be disposed of only at specifically authorised chemical disposal facilities.

Field Support

Providing field support, in itself, does not entail any supervisory obligations. Any recommendations by **ATECH®**, whether expressed orally or in written form, can be adopted as is, altered or disregarded by the owner, engineer or contractor. They are responsible for executing procedures deemed suitable for a given circumstance and not solely that of **ATECH®**.

Customer Responsibility

The publication provides technical information and application advice that is derived from the most reliable sources available during the time of printing. As the information presented in this publication is general, it cannot be assumed that the product is suitable for any specific use or application. Furthermore, no warranty is expressed or implied regarding its accuracy, reliability, or completeness except those required by Commonwealth or State Legislation. The owner, their representative or contractor is responsible for ensuring that products are appropriate for their intended use.

Safety Precautions

It is imperative to wear protective gear, such as a face mask, gloves, and overalls when working with these items due to the potential risk of allergic reactions via skin contact. Additionally, it is crucial to have sufficient ventilation in the area and avoid inhaling any vapours.

Exclusion Clause

- The data/information presented herein is based on extensive experience and is accurate to the best of our knowledge.
- **ATECH®** shall not be held liable for any reason, including but not limited to negligence, breach of statute, or other legal or equitable obligation, except for the quality of the product upon dispatch.
- Inquiries regarding specifications or applications should be promptly directed to our technical service department.
- The exclusion clause outlined in this text does not apply to any warranty the law cannot exclude.



Atech Products Pty Ltd
 PO Box 3119 Burnley North VIC 3121
 T. +61 3 9028 4265 E. sales@atechproducts.com.au
atechproducts.com.au