

Limestone Maintenance & Sealing Guide

Protecting natural stone while preserving its natural character

BRUHN
A LEGACY IN LIMESTONE



For all maintenance and environments, we recommend using a high quality penetrating sealer. At Bruhn, we use and supply **Environex Synergy Combination Consolidator & Sealer** a premium penetrating sealer and consolidator.



Why Synergy?

Synergy is a premium protection product suited to natural stone. It consolidates and hardens the surface while deeply penetrating the stone to deliver superior stain resistance and protection compared with traditional sealants. It is ideal for both internal and external limestone surfaces. Whilst it is deeply penetrating, it does not leave a sheen or visible layer on the stone.

Dual Function	Penetrates and consolidates stone for long-lasting protection.
Superior Stain Resistance	Helps prevent permanent staining from common spills like coffee, wine, oils and environmental contaminants.
Salt & Moisture Defence	Formulated to guard against salt attack when used correctly, particularly in exterior installations.
Breathable	Allows moisture vapour movement so stone doesn't trap moisture below the surface.

Maintenance & Inspections

When winter passes, it’s time to assess how your limestone has withstood the season’s moisture and temperature fluctuations. Without adequate maintenance, environmental factors can compromise the stone’s surface integrity. A proactive inspection ensures your investment remains protected for longer.

The Diagnostic

The Hydrophobicity Test is a simple water bead test to determine the status of the stone’s protective barrier.

The Test

Pour a small amount of water onto the limestone surface.

The Result

If the water forms distinct beads, the surface tension is intact, and the sealer is functioning.

However, if the water is absorbed into the substrate or leaves a dark wet patch, the hydrophobic barrier has been compromised and is vulnerable to organic growth and staining.

Technical Methodology

Restoration with Environex Synergy – Effective resealing requires strict adherence to preparation and application protocols. For Environex Synergy, see manufacturers recommendations summarised below.

I. Surface Preparation

Limestone is a soft, porous material, so it needs a gentle, correct cleaning method to avoid damage.

- a. Pre-wet the surface – Wet the stone with clean water to limit absorption.
- b. Apply a pH-neutral cleaner – Use a non-acidic cleaner such as Environex REFRESH. Avoid acidic products, as they will damage limestone.
- c. Light agitation – Gently clean using a soft to medium brush. Do not use stiff brushes.
- d. Rinse thoroughly – Wash off with clean water using low pressure only.
- e. Treat organic growth if needed – For mould or algae, use Environex GREEN CLEAN, then rinse.

II. Application

We recommend an airless spray application using a ‘flood coat’ or ‘wet-on-wet’ technique. This ensures the Synergy sealer saturates the stone to its maximum absorption point. The second coat must be applied before the first coat has dried (approximately 2 hours, dependent upon weather and site conditions).

III. Outcome

A correctly applied sealer provides a biocide additive to inhibit mould and algal growth and consolidates the surface to reduce fretting (converting soft material to a hard, dust-free finish).

IV. Safety & Precautions

During sealer application ensure adequate ventilation, wear PPE, eye protection, gloves, boots and protective clothing as per Environex manufacturer’s safety information.

V. Frequency

Perform the hydrophobicity test after each winter and redo the maintenance and seal, as required. Maintenance frequency varies as exterior stone surface primarily depends on site specific weather conditions.



Sometimes, a little care is all it takes to endure.

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