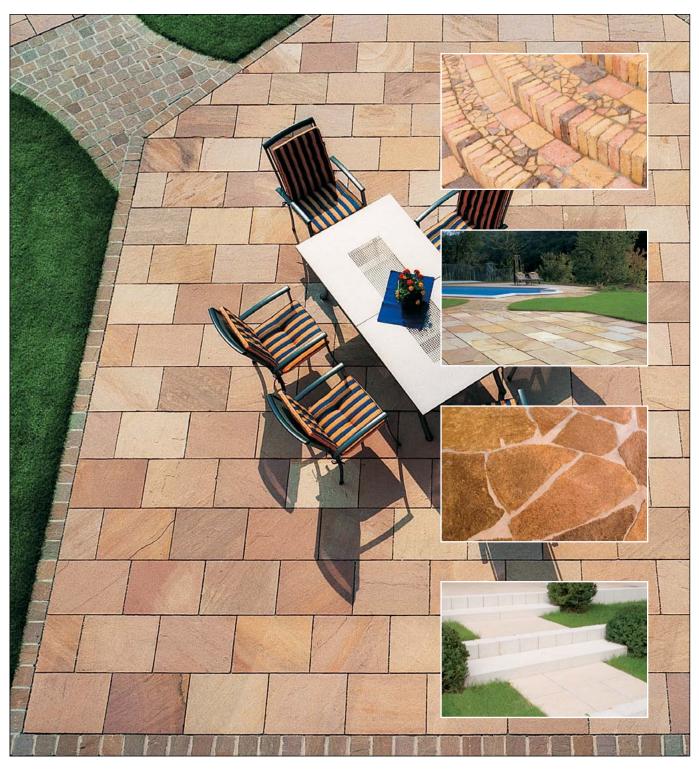


Grouting and Protecting

Natural Stone Surfaces -outdoors-

This method statement is based on the results of testing carried out by GftK and LITHOFIN. The method statement is valid for all cobble and natural stone surfaces in external areas.



■ The Professional Solution

Grouting and Protecting Natural Stone Surfaces -outdoors-

Required tools and products:

Tillo

- Hard brush for removing loose dirt particles
- Lithofin STAINSTOP , W((available in 1L and 5L canisters) approx. 5m² per litre on rough quartzite, 10m² on natural stone cobbles, 8m² on concrete stone
- Spraying device and/or roller
- Soft bristled brush for evenly distributing Lithofin STAINSTOP > W<
- Grouting material



The surface must be installed according to technical installation codes of practice/standards.

Prerequisites:

The natural or concrete stone surface must be installed according to the current technical regulations. When using pavement jointing that is designed to allow water to seep through, the substrate should be chosen accordingly (e.g. gravel, monocorn, etc.).

Please follow the instructions provided by the manufacturer of the grouting material. The surface must be clean, free of stains and all moisture released from the installation. The surface temperature should be 10 to 25°C.



Apply Lithofin STAINSTOP >W< with a spraying



Treatment before grouting:

This pre-treatment facilitates removing excess grouting material later on in the process and helps save time. In summer, this step is best performed in the morning. Application between 10 and 25°C surface temperature. Remove loose dirt (sand, leaves, etc.) with a hard brush.

Stubborn or deeply engrained dirt should be removed with the corresponding cleaner (please see the solutions guide on page 4). After cleaning, allow the surface to dry out fully.

On large surfaces and to save time, a spraying device should be used. On smaller surfaces, Lithofin STAINSTOP >W< can also be applied with a roller or a soft bristled brush.

Generously and evenly apply Lithofin STAINSTOP , W. Vertical surfaces such as steps or landings should also be treated.



Please note:

On rough or uneven surfaces, the product will collect in the small cavities of the substrate. Use a clean, soft bristled brush to evenly distribute the excess. Redistribute several times to avoid streaks and puddles.

The newly treated surface should be protected from rain and water for 1 to 2 hours. Tools can be cleaned with clean water.



Grouting with epoxy resin-based pavement jointing.



The adhesion is strong enough to avoid cracks.

Grouting:

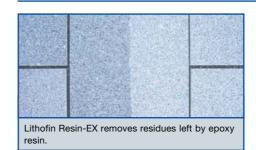
Before grouting the surface Lithofin STAINSTOP , W. should have dried off. Curing time should be at least 6 hours (at 20°C) or overnight. Apply grout according to the manufacturer's instructions.

The pre-treatment facilitates removal of grout residues because their adhesion to the surface is reduced.

The slight film typical to pavement joining materials is mostly avoided or does not appear at all. The natural stone surface maintains its original appearance.



The adhesion to the edge of the material is sufficiently maintained. Lab tests have shown that the adhesion of grout after impregnation remains at approx. 90%. In order to achieve these values, Lithofin STAINSTOP >We must be carefully applied according to the instructions.



Cleaning:

If any grout residues remain on the surface, they can be completely removed after the joint has completely cured. Apply Lithofin Resin-EX generously to the dry surface and allow the product to work for approx. 20-30 minutes. Brush vigorously and wash off with a garden hose. In case of cement-based grouting material use Lithofin MN Builders' Clean (only on acid resistant surfaces).

Cleaning products should always be tested for suitability prior to use.

Final treatment:

Additional protective treatment is not required because Lithofin STAINSTOP, W. provides a water and oil repellent effect. Re-treating the surface is recommended once the effect starts to wane (after approx. 3 years).

Lithofin STAINSTOP >W

Water-based impregnator Protects absorbent natural and concrete stone against staining. Prevents the penetration of oil grease and water.

- for indoor and outdoor use
- no aloss
- nearly odourless

Coverage: approx.10 to 20m²/L

Storage: closed, frost free, up to approx. 2 years.

Packaging: 1L, 5L

Solutions Guide

For natural stone surfaces -outdoors-

itho	Solutions Gu For natural stone surfaces -outde				
	Granite and similar hard stone Sawn, flamed, rough	Sandstone (Quartz-based)	Slate Hard and dense types	Limestone Rough, sawn	Concrete stone Honed, rough, blasted
Cleaning: for removing		,			
Stubborn surface dirt	Lithofin MN Power-Clean	Lithofin MN Power-Clean	Lithofin MN Power-Clean	Lithofin MN Power-Clean	Lithofin MN Power-Clean
Oil, grease, tar, paint, sealants	Lithofin WAX-OFF	Lithofin WAX-OFF	Lithofin WAX-OFF	Lithofin WAX-OFF	Lithofin WAX-OFF
Deeply ingrained oil and grease stains	Lithofin OIL-EX	Lithofin OIL-EX	Lithofin OIL-EX	Lithofin OIL-EX	Lithofin OIL-EX
Graffiti and spray paint	Lithofin Graffiti- Remover	Lithofin Graffiti- Remover	Lithofin Graffiti- Remover	Lithofin Graffiti- Remover	Lithofin Graffiti- Remover
Pavement jointing residues, resins	Lithofin Resin-EX	Lithofin Resin-EX	Lithofin Resin-EX	Lithofin Resin-EX 1)	Lithofin Resin-EX
Cement residues, limescale deposits Rust discolouration	Lithofin MN Builders' Clean 3)	Lithofin MN Builders' Clean	Lithofin MN Builders' Clean 2)	Lithofin MN Builders' Clean ²⁾	Lithofin MN Builders' Clean 2)
Rust stains	Lithofin Rust-EX	Lithofin Rust-EX	Lithofin Rust-EX	Lithofin Rust-EX	Lithofin Rust-EX
Stubborn cement residues, efflorescence	Lithofin CEMENT-AWAY 3)	Lithofin CEMENT-AWAY ³⁾	Lithofin CEMENT-AWAY ²⁾	Lithofin CEMENT-AWAY ²⁾	Lithofin CEMENT-AWAY ²
Green deposits and organic dirt	Lithofin ALGEX	Lithofin ALGEX	Lithofin ALGEX	Lithofin ALGEX	Lithofin ALGEX
Discolouration caused by plants	Lithofin MN Outdoor Cleaner	Lithofin MN Outdoor Cleaner	Lithofin MN Outdoor Cleaner	Lithofin MN Outdoor Cleaner	Lithofin MN Outdoor Cleaner
Protecting					
facilitating removal of residues from grouting materials	Lithofin STAINSTOP >W<	Lithofin STAINSTOP ,W<		Lithofin STAINSTOP >W<	Lithofin STAINSTOP >W<
protect against staining	Lithofin STAINSTOP ,W(4)	Lithofin STAINSTOP , W(4)	Lithofin STAINSTOP , W, 4)	Lithofin STAINSTOP , W(4)	Lithofin STAINSTOP >W < 4
Maintaining					
regular cleaning	Lithofin MN Power-Clean	Lithofin MN Power-Clean	Lithofin MN Power-Clean	Lithofin MN Power-Clean	Lithofin MN Power-Clean
Important notes: 1) Dark materials may become lighter. Test before use. 2) Use highly diluted (do not use on Italian slate and similar materials).			3) Only suitable for acid resistant surfaces. 4) Lithofin MN Stain-Stop (solvent based) is also suitable.		



Lithofin Resin-EX

Special Stripper Gel

Removes all residues of epoxygrout and similar blemishes such as resins, sealants, oil and grease deposits, paint (graffiti), plastic residues, etc. Suitable for ceramics and all rough natural and artificial stones

• gel-like • contains solvents

Coverage: approx. 5m2/kg. Packaging: 1 kg, 5 kg.

If you require advice or are in any way unsure about these instructions, please call our

Technical Support Line: 01962 732126

www.lithofin.co.uk

The easy way to find the right solution:





Your LITHOFIN-Dealer:

This information should be considered to be informal and non-binding.
The products must be used according to local conditions and materials. Instructions must be read carefully and followed closely. Always test the product in an inconspicuous area.