

APPLICATION GUIDE 18

EXTERNAL NATURAL STONE & PAVING

APPLICATION BY HAND

March 2022



INTENSIVE CLEANING & SEALING GUIDE FOR EXTERNAL STONE FLOORING

CLEANING & SEALING

The following is an intensive cleaning guide for refurbishing all types of external natural and artificial stone. The products listed should cover a number of issues and help ensure that surfaces are suitably conditioned and cleaned prior to sealing. Sealing will help make future cleaning and aftercare much easier.



1. REMOVING BLACKSPOT, MILDEW & ALGAE FROM THE SURFACE OF THE STONE INCLUDING STEPS AND RISERS

LTP BLACKSPOT & ALGAE REMOVER – PATIO, PATH & DRIVEWAY

Kills & removes organic soiling from all types of external natural and artificial stone including concrete pavers. Formulated to cling to surfaces and remove mould, mildew, lichen, fungus, algae and moss. Bleaching action also helps to restore natural stone and paving to its original colour.



APPLICATION	1 ltr	5 ltr	25 ltr
Surface cleaning	N/A	50 M ² Per Bottle	N/A
Deep stripping	N/A	25 M ² Per Bottle	N/A
In extreme cases	N/A	15 M ² Per Bottle	N/A

TECHNICAL FEATURES

- Non Hazardous
- Controls & removes organic soiling
- Algae, mould, lichen, mildew
- Low drip formula
- Helps prevent re-growth
- Easy to use
- Interior & exterior use
- High performance

DIRECTIONS FOR USE: MECHANICAL APPLICATION FLOORS



STEP 1.

Fill a light pressure sprayer with the solution. Do not dilute.

STEP 2.

Leave for no less than one hour. If a longer treatment is required leave overnight for up to 5 hours.

STEP 3.

Releasing water from the on board tank and scrub surfaces and joints to release the dirt and grime.

STEP 4.

Rinse well with plenty of water.

STEP 5.

Leave surfaces to thoroughly dry before allowing traffic or sealing.

This information is offered without guarantee. The material should be used so as to take account of the local conditions and the surfaces to be treated. In case of doubt, the product should be tried out in an inconspicuous area



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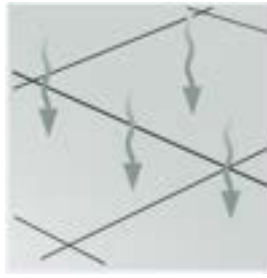


CLEANING (cont)...

DIRECTIONS FOR USE: MANUAL APPLICATION FLOORS



STEP 1.
Apply cleaner directly to the surface of the stone. Do not dilute. Surfaces can be damp.



STEP 2.
Leave for no less than one hour. If a longer treatment is required leave overnight for up to 5 hours.



STEP 3.
Add a little water and gently scrub the surface.



STEP 4.
Rinse well with plenty of water.



STEP 5.
Leave surfaces to thoroughly dry before allowing traffic or sealing.

DIRECTIONS FOR USE: MANUAL APPLICATION STEPS



STEP 1.
Apply cleaner directly to the surface of the stone. Do not dilute. Surfaces can be damp.



STEP 2.
Leave for no less than one hour. If a longer treatment is required leave overnight for up to 5 hours.



STEP 3.
un-cover, add a little water and agitate immediately using a short haired stiff bristled brush.



STEP 4.
Rinse well with plenty of cool water. This should be done at least twice.



STEP 5.
Allow surfaces to dry before allowing traffic or sealing.

FURTHER INFORMATION - CLEANING:

EQUIPMENT REQUIRED: Low pressure sprayer, short haired stiff bristled brush, paint brush, rotary scrubbing machine with onboard water tank, stiff brush attachment for the machine, wet vac, buckets, sponges, absorbant towels (for spillage control), Plastic film and masking tape for covering and protecting surfaces not to be cleaned...also for covering over the paving cleaner once applied. Pressure washer or hose pipe for rinsing.

Ensure that any sensitive surfaces not to be cleaned are properly covered and protected before beginning. Ensure that gloves and eye protection and suitable water proof clothing are worn at all times.

Main walkways & terraces...After spraying on the cleaning solution work in teams of two. One operator should agitate the surface using a rotary machine with stiff brush attachment. The other operator should use the wet vac for immediate extraction. This will prevent released dirty residues re-absorbing into the pavers and greatly reduce the drying time of surfaces. Use cool water only within the tank on the scrubbing machine. Do not put intensive cleaning solution through the machine as this will impair it's effectiveness.

Balustades, steps and risers...start on the top of the steps/balustrades and work down. Try to work in manageable areas at a time and make sure to rinse well with plenty of water after each application. Rinsing should be repeated at least 2 times after cleaning. In areas where the staining is deep repeat the process until all of the stains have gone. Heavily contaminated surfaces will require more than one treatment.

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CLEANING (cont)...

2. REMOVING GENERAL DIRT AND GRIME...

LTP GRIMEX



LTP Grimex is a high performance product for stripping and cleaning of vitrified glazed ceramics, porcelain, travertine, natural stone, sandstone, slate, marble, granite, terracotta, quarry, brick, concrete, external paving, terrazzo and other mineral floors & walls. On larger areas scrubber drier machines can be used. For this project we would suggest using hand tools along the edges and then machinery on the open areas.

APPLICATION	1ltr	5ltr	25ltr
Surface Cleaning	60 M ² Per Bottle	300 M ² Per Bottle	1500 M ² Per Bottle
Deep Stripping	30 M ² Per Bottle	150 M ² Per Bottle	750 M ² Per Bottle
In Extreme Cases	15 M ² Per Bottle	75 M ² Per Bottle	375 M ² Per Bottle

TECHNICAL FEATURES

- Non hazardous
- High performance
- Fast acting
- Easy to use
- Walls & floors
- Interior & exterior use
- Deep cleaning

DIRECTIONS FOR USE: MECHANICAL APPLICATION FLOORS



STEP 1.
Dilute solution 1 : 1 with warm water and fill a light pressure sprayer.



STEP 2.
Wet the surface with the solution and leave for 10 – 15 minutes. Work in manageable areas at a time.



STEP 3.
Releasing water from the on board tank and scrub surfaces and grout joints to release the dirt and grime.



STEP 4.
Rinse well with water. Repeat steps 2, 3 and 4 until the surface is clean.



STEP 5.
Allow surfaces to dry before allowing traffic or sealing.

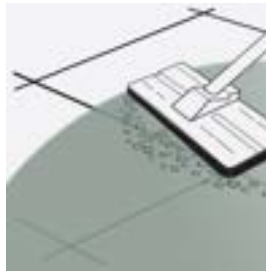
DIRECTIONS FOR USE: MANUAL APPLICATION FLOORS



STEP 1.
Dilute solution 1 : 1 with warm water and fill a light pressure sprayer.



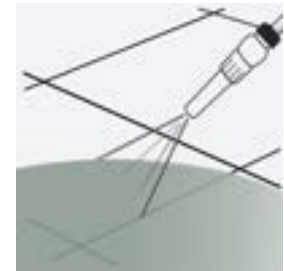
STEP 2.
Wet the surface with the solution and leave for 10 – 15 minutes. Work in manageable areas at a time.



STEP 3.
Add a little water and gently scrub surfaces with a black pad to release the loosened matter from the surface.



STEP 4.
Sponge up and extract released residues. Repeat steps 2, 3 and 4 until the surface is clean.



STEP 5.
Rinse well with water. Allow surfaces to dry before allowing traffic or sealing.

This information is offered without guarantee. The material should be used so as to take account of the local conditions and the surfaces to be treated. In case of doubt, the product should be tried out in an inconspicuous area



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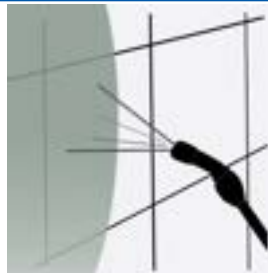
CLEANING (cont)...

DIRECTIONS FOR USE: MANUAL APPLICATION WALLS



STEP 1.

Dilute solution 1 : 1 with warm water and fill a light pressure sprayer.



STEP 2.

Wet the surface with the solution and leave for 10 – 15 minutes. Work in manageable areas at a time.



STEP 3.

Add a little water and gently scrub surfaces with a black pad to release any loosened matter from the surface.



STEP 4.

Sponge to extract released residues from the surface. Repeat steps 2, 3 and 4 until the surface is clean.



STEP 5.

Rinse well to finish. Allow to dry before sealing.

FURTHER INFORMATION:

EQUIPMENT REQUIRED: rotary scrubbing machine with onboard water tank, micro-fibre cloths, black or white emulsifying pad, buckets, sponges, absorbant towels (for spillage control), Plastic film and masking tape for covering and protecting any surfaces not to be cleaned.

Ensure that any sensitive surfaces not to be cleaned are properly covered and protected before beginning. Ensure that gloves, eye protection and suitable water proof clothing are worn at all times. Spillages of un-diluted cleaner should be wiped up and rinsed several times immediately.

After applying the cleaning solution to larger floor areas work in teams of two. One operator should agitate the surface using a rotary machine. The other operator should use the wet vac or a sponge and water for immediate extraction. This will prevent released dirty residues from re-absorbing into the surface and greatly reduce the drying time of surfaces. Use cool water only within the tank on the scrubbing machine. Do not put intensive cleaning solution through the machine as this will impair it's effectiveness. make sure underfloor heating is switched off and the surface of the tile is cool.

If applying to walls, steps or risers start on the top and work down. Try to work in manageable areas at a time and make sure to rinse well with plenty of water after each application. Rinsing should be repeated at least 2 times after cleaning. In areas where the staining is deep repeat the process until all of the stains have gone.

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CLEANING (cont)...

3. REMOVING - GROUT POLYMER, PAINT SPOTS, SILICONE & EPOXY STAINS FROM THE SURFACE

LTP SOLVEX

A powerful non caustic stripper that softens most types of polymer, paint spots, silicone and epoxy residues for easy removal. Suitable for stone, travertine, sandstone, slate, marble, porcelain, ceramic, granite, terracotta, terrazzo, quarry, brick, concrete and masonry.



APPLICATION	1 ltr	5 ltr	25 ltr
Mild cases	10 M ² Per Bottle	50 M ² Per Bottle	N/A
Severe cases	5 M ² Per Bottle	25 M ² Per Bottle	N/A
Extremely server	3 M ² Per Bottle	15 M ² Per Bottle	N/A

TECHNICAL FEATURES

- High performance
- Targets heavy or light films
- Walls & floors
- Rapid action
- Easy to use
- Interior & exterior
- Non drip

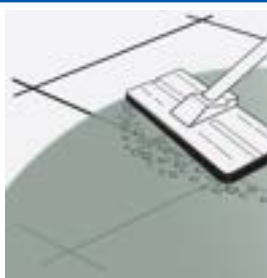
DIRECTIONS FOR U E MANUAL APPLICATION REMOVING RESIDUAL POLYMER: FLOORS



STEP 1.
Apply solution directly onto the surface. Do not dilute.



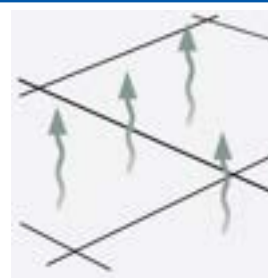
STEP 2.
Brush out thickly and evenly and leave on the surface for 15 - 30 minutes. Do not allow to dry. Add more to keep wet.



STEP 3.
Add a little water and scrub using a short haired stiff bristled brush or black emulsifying pad to remove the softened films.



STEP 4.
Rinse immediately with a sponge and water. Change rinsing water after every 5 M².



STEP 5.
Allow surfaces to dry. If small amounts of residue remain repeat the process.

DIRECTIONS FOR USE: REMOVING PAINT SPOTS, EPOXY AND SILICONE RESIDUES: FLOORS



STEP 1.
Apply directly to the surface from the container. Do not dilute.



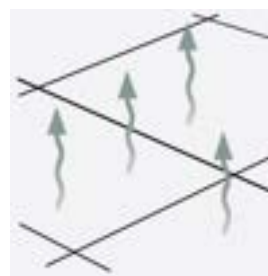
STEP 2.
Spread out evenly using a paint brush and leave for 30 - 40 minutes.



STEP 3.
Scrub the surface to release any residues. Machines can be used.



STEP 4.
Sponge up or extract released residues and rinse with water.



STEP 5.
Allow surfaces to dry before allowing traffic.

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CLEANING (cont)...

FURTHER INFORMATION – CLEANING TO REMOVE PAINT SPOTS, EPOXY, SILICONE:

EQUIPMENT REQUIRED: Micro-fibre cloths, black or white emulsifying pad, buckets, sponges, absorbant towels (for spillage control), Plastic film and masking tape for covering and protecting any surfaces not to be cleaned.

Ensure that any sensitive surfaces not to be cleaned are properly covered and protected before beginning. Ensure that gloves, eye protection and suitable water proof clothing are worn at all times.

After applying the cleaning solution check after 15 minutes to make sure it is not drying out. If it appears to be drying then apply a little more solution. If a stiff scrubbing brush is not available then a black emulsifying pad or microfibre cloth can be used to gently agitate the stain from the surface.

4. REMOVING CEMENT, GROUT & SALT RESIDUES...

LTP CEMENT, GROUT & SALT RESIDUE REMOVER



Rapid action cleaning agents for removing cement residues, grout stains, salts, efflorescence and other similar deposits. This product can be used in dilute or concentrated form, to assist removal of stubborn residues. **LTP Cement, Grout & Salt Residue Remover** is manufactured using acid replacement technology, which makes it ideal for use on surfaces that are acid sensitive such as limestone, sandstone, chrome and stainless steel.

APPLICATION	1 ltr	5 ltr	25 ltr
Mild cases	25 M ² Per Bottle	125 M ² Per Bottle	625 M ² Per Bottle
Severe cases	15 M ² Per Bottle	75 M ² Per Bottle	375 M ² Per Bottle
Extremely severe	5 M ² Per Bottle	25 M ² Per Bottle	125 M ² Per Bottle

TECHNICAL FEATURES

- High performance
- Targets heavy or light films
- Walls & floors
- Rapid action
- Easy to use
- Acid replacement tech
- Interior & exterior
- Efflorescence remover

DIRECTIONS FOR USE: MECHANICAL APPLICATION FLOORS



STEP 1.
Dilute solution 1 : 1 with cool water and fill a light pressure sprayer.



STEP 2.
Apply to the surface and leave for 5 - 10 minutes. Work in manageable areas at a time.



STEP 3.
Scrub surfaces with a rotary scrubber to release cement & salt residues.



STEP 4.
Extract the released residues. Repeat steps 2, 3 & 4 until surfaces are clean.



STEP 5.
Rinse well with water. Allow surfaces to dry before allowing traffic or sealing.

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CLEANING (cont)...

DIRECTIONS FOR USE: MANUAL APPLICATION FLOORS



STEP 1.
Dilute solution 1 : 1 with cool water. Mask and protect areas not to be cleaned.



STEP 2.
Apply to the surface working in manageable areas at a time.



STEP 3.
Add a little water and gently scrub surfaces with a black pad to release the residues from the surface.



STEP 4.
Sponge up and extract released residues. Repeat steps 2, 3 & 4 until surfaces are clean.

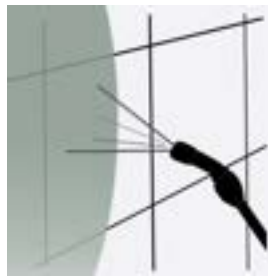


STEP 5.
Rinse well with water. Allow surfaces to dry before allowing traffic or sealing.

DIRECTIONS FOR USE: MANUAL APPLICATION WALLS



STEP 1.
Dilute solution 1 : 1 with warm water and fill a light pressure sprayer.



STEP 2.
Wet the surface with the solution and leave for 10 – 15 minutes. Work in manageable areas at a time.



STEP 3.
Add a little water and gently scrub surfaces with a black pad to release residues from the surface.



STEP 4.
Sponge to extract released residues from the surface. Repeat steps 2, 3 and 4 until the surface is clean.



STEP 5.
Rinse well to finish. Allow to dry before sealing.

FURTHER INFORMATION:

USEFUL EQUIPMENT: Black emulsifying pad, rotary scrubbing machine with onboard water tank, stiff brush attachment for the machine, wet vac, buckets, sponges, absorbant towels (for spillage control), Plastic film and masking tape for covering and protecting any surfaces not to be cleaned.

Ensure that any sensitive surfaces not to be cleaned are properly covered and protected before beginning. Ensure that gloves and eye protection and suitable water proof clothing are worn at all times. After applying the cleaning solution to larger floor areas work in teams of two. One operator should agitate and scrub the surface. The other operator should use a wet vac or sponge and water for immediate extraction. This will prevent released cement or salt residues from re-absorbing into the surface and greatly reduce the drying time of surfaces. Use cool water only within the tank on the scrubbing machine. Do not put intensive cleaning solution through the machine as this will impair its effectiveness. Never use warm or hot water.

If applying to walls, steps or risers start on the top and work down. Try to work in manageable areas at a time and make sure to rinse well with plenty of water after each application. Rinsing should be repeated at least 2 times after cleaning. In areas where the staining is deep repeat the process until all of the stains have gone.

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CLEANING (cont)...

5. REMOVING RUST STAINS LEFT BY TOOLS AND STANDING METAL OBJECTS/FURNITURE

LTP RUST STAIN REMOVER



A high performance rust stain remover for interior & exterior use. Removes stains in 15 minutes. Non-acidic formulation particularly suited for delicate applications such as polished marble, removing stains by acting directly onto the surface. Ideal for all types of polished and unpolished natural and artificial stone including marble, granite, travertine, split face stone cladding, sandstone, concrete, terracotta ceramic and porcelain.

APPLICATION	1ltr	5ltr	25ltr
Surface Cleaning	10 M ² Per Bottle	50 M ² Per Bottle	N/A
Deep Stripping	5 M ² Per Bottle	25 M ² Per Bottle	N/A
In Extreme Cases	3 M ² Per Bottle	15 M ² Per Bottle	N/A

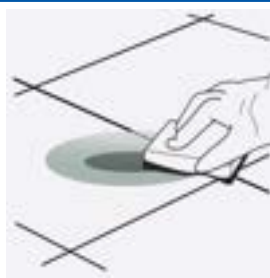
TECHNICAL FEATURES

- Non hazardous
- High performance
- Low drip formula
- Gentle removal
- Easy to use
- Fast acting
- Walls & floors
- Interior & exterior use

DIRECTIONS FOR USE MANUAL APPLICATION: FLOORS



STEP 1.
Ensure surface is as dry as possible before application.



STEP 2.
Apply undiluted generously to the surface of the rust stains.



STEP 3.
Leave for 15 minutes. The solution should gradually turn a deep purple colour.



STEP 4.
Agitate immediately using a black emulsifying pad to remove the released rust from the surface.



STEP 5.
Rinse well with water. Repeat steps 2 to 5 until all of the rust staining has been removed.

FURTHER INFORMATION – CLEANING TO REMOVE RUST MARKS:

EQUIPMENT REQUIRED: Black emulsifying pad, paint brush, paint kettle, rinsing water, sponge and absorbant towels (for spillage control).

Ensure that any sensitive surfaces not to be cleaned are properly covered and protected before beginning. Ensure that gloves, eye protection and suitable water proof clothing are worn at all times. Ensure that gloves and eye protection and suitable water proof clothing are worn at all times. Treated surfaces will initially turn purple. This will stop when all of the rust stain has been removed. Rinse well with plenty of water.

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CLEANING (cont)...

6. REMOVING ORANGE STAINING FROM NATURAL IRON DEPOSITS WITHIN HARD FERROUS STONES

LTP FERREX



Natural stones often contain traces of Iron, which may oxidise when they come into contact with moisture either from rain or cleaning. It can also occur when stone comes into contact with certain acid-based cleaners that contain ingredients that accelerate the oxidation process. The result of this oxidation is that the stone develops rust and discolouration (brown staining). LTP Ferrex is specifically formulated to help remove these blemishes. Also removes cement and salt staining.

APPLICATION	1ltr	5ltr	25ltr
Mild Cases	25 M ² Per Bottle	125 M ² Per Bottle	N/A
Severe cases	20 M ² Per Bottle	100 M ² Per Bottle	N/A
Extremely severe	15 M ² Per Bottle	75 M ² Per Bottle	N/A

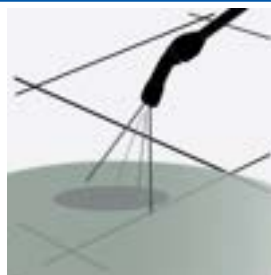
TECHNICAL FEATURES

- High performance
- Acid based
- Targets the stain
- Removes rust
- Easy to use
- Fast acting
- Walls & floors
- Exterior use

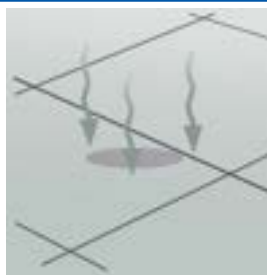
DIRECTIONS FOR USE MANUAL APPLICATION



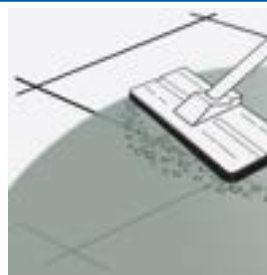
STEP 1.
Fill a light pressure sprayer with the dilute solution and allow (see instructions on the bottle).



STEP 2.
Spray onto the pavers making sure to cover the whole surface (not just the spots) and allow to absorb.



STEP 3.
Leave to work for 30 minutes up to 5 hours (Max).



STEP 4.
As soon as the brown stains are no longer visible. Add a little water and agitate the surface.



STEP 5.
Rinse well with water and leave to dry. As soon as it is dry enough apply an impregnating sealer.

FURTHER INFORMATION – CLEANING TO REMOVE IRON BREAKOUTS:

EQUIPMENT REQUIRED: Black emulsifying pad, paint brush, sprayer, rinsing water, sponge and absorbant towels (for spillage control).

Ensure that any sensitive surfaces not to be cleaned are properly covered and protected before beginning. Ensure that gloves, eye protection and suitable water proof clothing are worn at all times. Treated surfaces may in more extreme cases take more than one application. As soon as the brown staining has disappeared and the stone is as clean as possible. Rinse well with plenty of water.

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SEALING....

7. PROTECTING AND DELICATELY ENHANCING THE APPEARANCE OF THE STONE



LTP EXTERNAL STONE SEALER

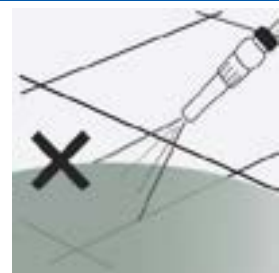
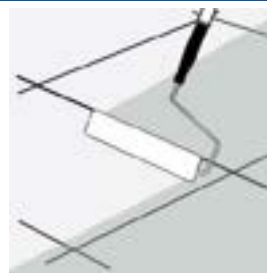
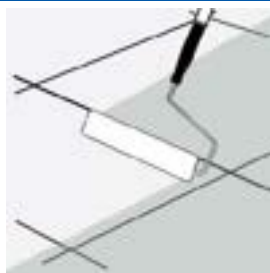
A natural finish water based impregnating sealer that delicately enhances the appearance. Helps protect against staining. Treated surfaces strongly repel water, oil and grease. This product allows surfaces to breathe. Ideal for protecting external porous stone and tile surfaces. This product is non film forming.

APPLICATION	1 ltr	5 ltr	25 ltr
Low porosity surfaces	15 M ² Per coat	75 M ² Per coat	375 M ² Per coat
Higher porosity surfaces	7.5 M ² Per coat	37.5 M ² Per coat	187.5 M ² Per coat
Polished surfaces	30 M ² Per coat	150 M ² Per coat	750 M ² Per coat

TECHNICAL FEATURES

- Non hazardous
- High performance
- Low odour VOC free
- Enhanced protection
- Easy to apply
- Breathable
- Interior & exterior use
- Quick drying
- UV Resistant

DIRECTIONS FOR USE:



STEP 1.

Ensure surface to be treated is clean and as dry as possible before pouring the sealer onto the surface.

STEP 2.

Spread out evenly using a sealant applicator pad, broad paint brush or foam roller.

STEP 3.

Allow sealer to absorb and dry for 2 hours. Place a little water on the surface to see if it is absorbed.

STEP 4.

If water is absorbed...further coats should be applied until the stone will absorb no more.

STEP 5.

Traffic can be allowed a few hours after application. Do not wash, cover or make excessively wet for at least 24hrs following treatment.

FURTHER INFORMATION:

Ensure that any surfaces not to be treated are properly covered and protected before beginning. Ensure that gloves and eye protection are worn at all times. Some areas may look patchy following application, especially if the product is applied to surfaces that are still slightly damp. This is caused by retained moisture. This is normal. The impregnating sealer is breathable, so any damp patches caused by retained moisture should still dry to leave surfaces with an even appearance. This can sometimes take a further couple of days following application. Do not cover newly sealed surfaces with non-breathable membrane, cardboard, plastic sheets.

This information is offered without guarantee. The material should be used so as to take account of the local conditions and the surfaces to be treated. In case of doubt, the product should be tried out in an inconspicuous area



For any LTP product information call our technical helpline
+ 44 (0) 1823 666213 | www.ltp-online.co.uk | technical@ltp-online.co.uk
Tone Est, Milverton Road, Wellington, Somerset, TA21 0AN



APPLICATION GUIDE 18

EXTERNAL NATURAL STONE & PAVING

APPLICATION BY HAND

March 2022



SEALING CONT....

8. PROTECTING & RESTORING THE APPEARANCE OF BLACK STONE PAVING

LTP BLACKSTONE SEALER & RESTORER



Water based black impregnating sealer for restoring the appearance of all types of faded dark natural and artificial stone including limestone, marble, slate and concrete pavers. Helps protect against staining. Treated surfaces strongly repel water, oil and grease. This product allows surfaces to breathe. Ideal for protecting external porous stone and tile surfaces. This product is non film forming.

APPLICATION	1 ltr	5 ltr	25 ltr
Low porosity surfaces	15 M ² Per coat	75 M ² Per coat	375 M ² Per coat
Higher porosity surfaces	7.5 M ² Per coat	37.5 M ² Per coat	187.5 M ² Per coat
Polished surfaces	30 M ² Per coat	150 M ² Per coat	750 M ² Per coat

TECHNICAL FEATURES

- Non hazardous
- High performance
- Low odour VOC free
- Enhanced protection
- Easy to apply
- Breathable
- Exterior use
- Quick drying
- UV Resistant

DIRECTIONS FOR USE:



STEP 1.

Ensure the surface is as clean and dry as possible before applying the impregnating sealer. Apply using a foam roller or paint brush.

STEP 2.

Allow sealer to penetrate the surface and dry.

STEP 3.

Apply further coats at 2 hourly intervals until the desired finish has been achieved.

STEP 4.

When dry remove any excess. Wash surface with a dilute 1:10 solution of LTP Grimex.

STEP 5.

Rinse and leave to dry. Keep off of surfaces while they are drying and keep as dry as possible for the first 24 hours.

FURTHER INFORMATION:

Ensure that any surfaces not to be treated are properly covered and protected before beginning. Ensure that gloves and eye protection are worn at all times. Some areas may look patchy following application, especially if the product is applied to surfaces that are still slightly damp. This is caused by retained moisture. This is normal. The impregnating sealer is breathable, so any damp patches caused by retained moisture should still dry to leave surfaces with an even appearance. This can sometimes take a further couple of days following application. Do not cover newly sealed surfaces with non-breathable membrane, cardboard, plastic sheets.

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