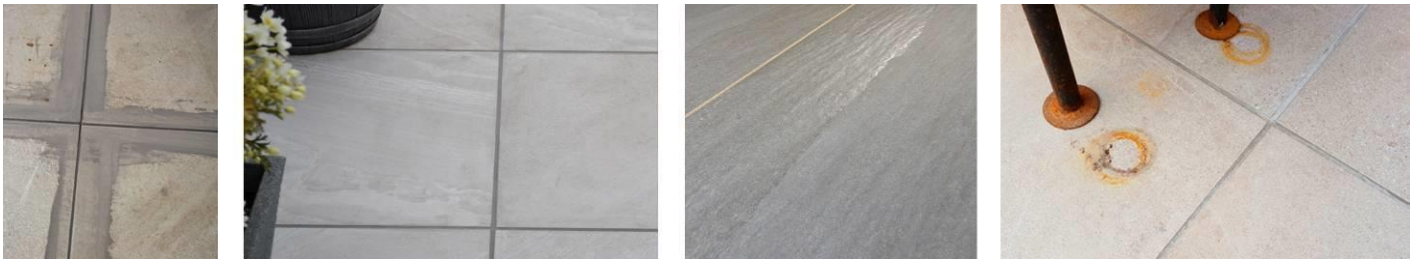


PROTECTION AND CLEANING GUIDE FOR EXTERNAL PORCELAIN TILES & PAVING

PROTECTING & CLEANING

The following is a protection and cleaning guide for all types of external porcelain. This includes the application of a protective sealer pre and post grouting to help with grout release. The cleaning products in the guide cover a number of staining issues and how to remove them helping to ensure that the future cleaning and aftercare is much easier.



SEALING...

1. PROTECTING THE SURFACE OF THE PORCELAIN PRE & POST GROUTING/POINTING

LTP PORCELAIN TILE PROTECTOR



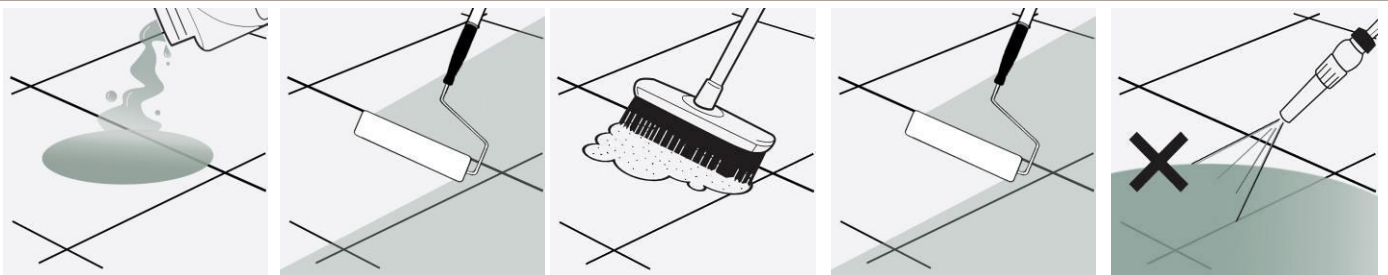
A natural finish water based impregnating sealer that dries without altering the appearance. Helps protect against staining. Treated surfaces strongly repel water, oil, grease cements and resins. This product allows surfaces to breathe. Ideal for protecting pre and post grouting. This product is non film forming.

APPLICATION	1 ltr	5 ltr	25 ltr
Low porosity surfaces	15 M ² Per coat	75 M ² Per coat	N/A
Higher porosity surfaces	7.5 M ² Per coat	37.5 M ² Per coat	N/A
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
- Invisible 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. Repeat after 30 minutes. Leave to dry for 1 hour.

STEP 3.
Grout in the joints or brush in jointing compound and clean off residues. Always follow manufacturers instructions.

STEP 4.
When dry and free of residues apply a final coat of protector making sure to cover the joints as well.

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.

SEALING (cont)...

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.

CLEANING...

2. REMOVING MILDEW & ALGAE FROM THE SURFACE INCLUDING STEPS AND RISERS

BLACKSPOT & ALGAE REMOVER

Ready to use deep cleaning solution that works on a wide range of outdoor surfaces to keep your patio, garden path and driveway looking their best all year round.



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

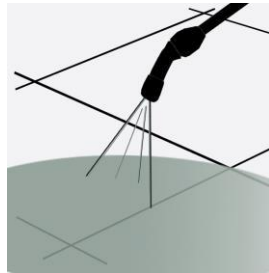
TECHNICAL FEATURES

- Deep cleaning
- Controls & removes organic soiling
- Algae, mould, lichen, mildew
- Spray on formula
- Helps prevent re-growth
- Easy to use
- Interior & exterior use
- High performance

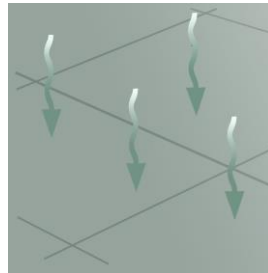
DIRECTIONS FOR USE: MANUAL APPLICATION FLOORS



STEP 1.
Fill a light pressure sprayer with the solution. Do not dilute.



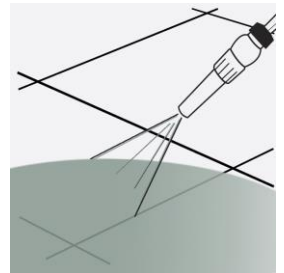
STEP 2.
Set the pressure between 0.5 and 1 bar. Apply an even layer to the surface.



STEP 3.
Leave the solution to penetrate the surface. Leave for 1 – 5 hours depending on the level of soiling.



STEP 4.
Keep off of surfaces, while the solution is active. Keep pets and children away



STEP 5.
Rinse well with plenty of water. Allow surfaces to dry before allowing traffic or applying porcelain protector.

CLEANING (cont)...

DIRECTIONS FOR USE: MANUAL APPLICATION STEPS

**STEP 1.**

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

STEP 2.

Set the pressure between 0.5 and 1 bar. Apply an even layer to the surface.

STEP 3.

Leave the solution to penetrate the surface. Leave for 1 – 5 hours depending on the level of soiling.

STEP 4.

Keep off of surfaces, while the solution is active. Keep pets and children away

STEP 5.

Rinse well with plenty of water. Allow surfaces to dry before allowing traffic or sealing applying porcelain protector.

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. 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 machine application... After spraying on the cleaning solution and leaving it to work in teams of two. One operator should agitate the surface using a rotary machine and stiff brush attachment. The other operator should use the wet vac for immediate extraction. This will prevent any 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.

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

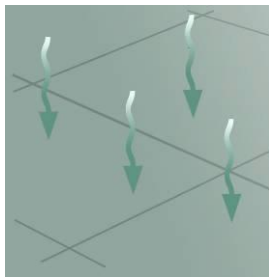
TECHNICAL FEATURES

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

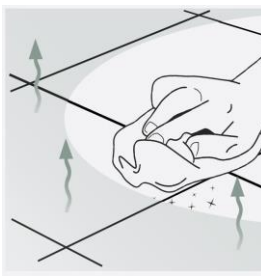
DIRECTIONS FOR USE MANUAL APPLICATION REMOVING RESIDUAL POLYMER: FLOORS



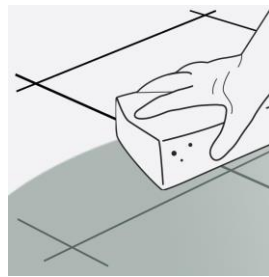
STEP 1.
Apply solution directly onto the surface. Do not dilute.



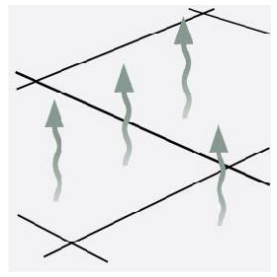
STEP 2.
Brush out thickly and evenly and leave on the surface for min 30 minutes. Do not allow to dry. Add more to keep wet.



STEP 3.
Scrub using a short haired stiff bristled brush. Rub surface with a clean lint free dry cloth 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 still remain repeat the process.

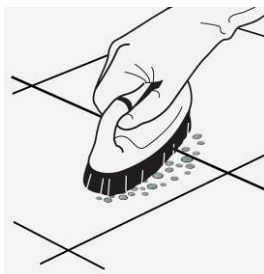
DIRECTIONS FOR USE: REMOVING PAINT SPOTS, EPOXY AND SILICONE RESIDUES: FLOORS



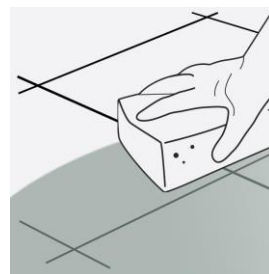
STEP 1.
Apply directly to the surface from the container. Do not dilute.



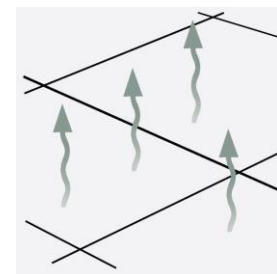
STEP 2.
Spread out evenly using a paint brush and leave for 30 - 40 minutes.



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.

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 mildly abraasive emulsifying pad or microfibre cloth can be used to gently agitate the stain from the surface.

LTP GRIMEX

LTP Grimex is a high performance product for stripping and cleaning of vitrified glazed ceramics, porcelain,

DIRT AND GRIME...

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.

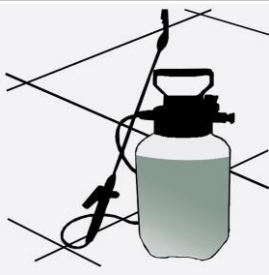


APPLICATION	1ltr	5ltr	25ltr
Surface Cleaning	60 M ² Per Bottle	300 M ² Per Bottle	1500 M ² Per Bottle
Deep Stripping	30 M ² Per Bottle	150 M ² Per Bottle	750 M ² Per Bottle
In Extreme Cases	15 M ² Per Bottle	75 M ² Per Bottle	375 M ² Per Bottle

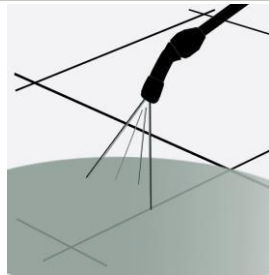
TECHNICAL FEATURES

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

DIRECTIONS FOR USE: MECHANICAL APPLICATION FLOORS



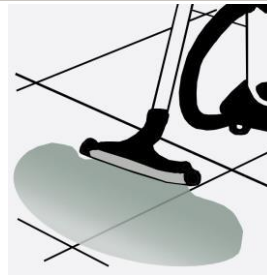
STEP 1.
Dilute solution 1 : 1 with warm water and fill a light pressure sprayer.



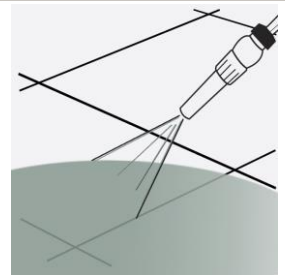
STEP 2.
Wet the surface with the solution and leave for 10 – 15 minutes. Work in manageable areas at a time.



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



STEP 4.
Extract the 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.

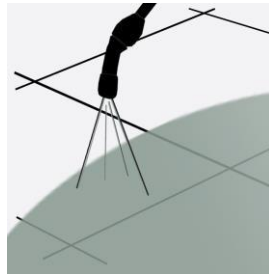
CLEANING (cont)...

DIRECTIONS FOR USE: MANUAL APPLICATION FLOORS



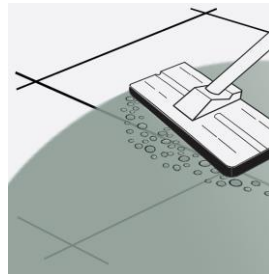
STEP 1.

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



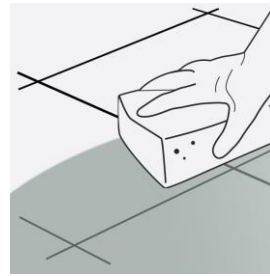
STEP 2.

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



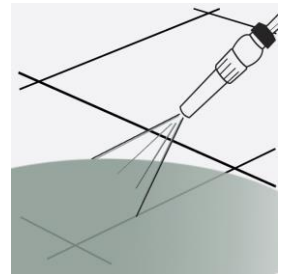
STEP 3.

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



STEP 4.

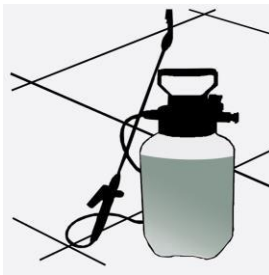
Sponge up and extract released residues. Repeat steps 2, 3 and 4 until the surface is clean.



STEP 5.

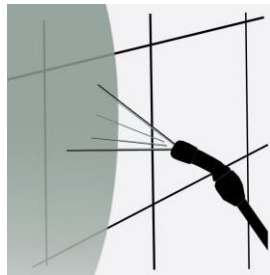
Rinse well with water. Allow surfaces to dry before allowing traffic or sealing.

DIRECTIONS FOR USE: MANUAL APPLICATION WALLS



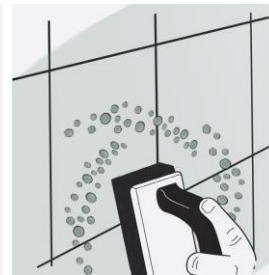
STEP 1.

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



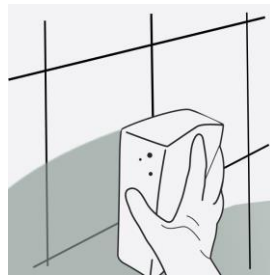
STEP 2.

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



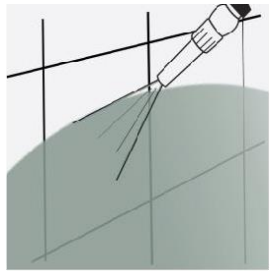
STEP 3.

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.

CLEANING (cont)...

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

LTP CEMENT, GROUT & SALT RESIDUE REMOVER

LTP GROUT STAIN REMOVER



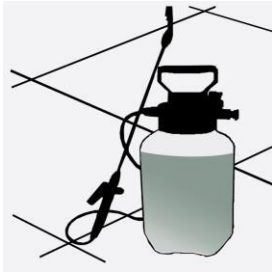
Rapid action cleaning agents for removing cement residues, grout stains, salts, efflorescence and other similar deposits. This product can be used in dilute or concentrated form, to assist removal of stubborn residues. **LTP Cement, Grout & Salt Residue Remover** is manufactured using acid replacement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

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

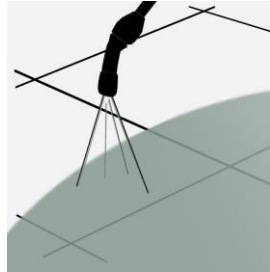
TECHNICAL FEATURES

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

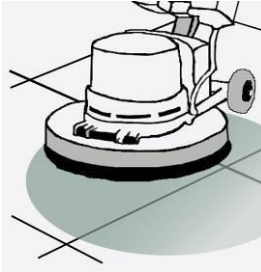
DIRECTIONS FOR USE: MECHANICAL APPLICATION FLOORS



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.

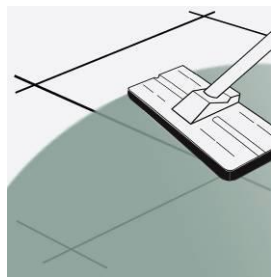


STEP 5.
Rinse well with water. Allow surfaces to dry before allowing traffic or sealing.

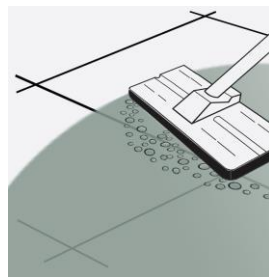
DIRECTIONS FOR USE: MANUAL APPLICATION FLOORS



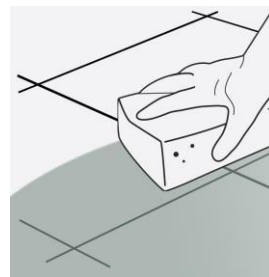
STEP 1.
Dilute solution 1 : 1 with cool water. Mask and protect areas not to be cleaned.



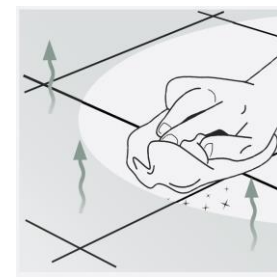
STEP 2.
Apply to the surface working in manageable areas at a time.



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



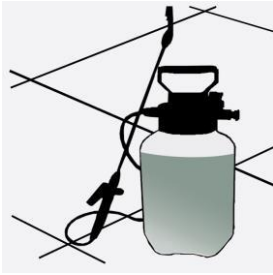
STEP 4.
Sponge up and extract released residues. Repeat steps 2, 3 & 4 until surfaces are clean.



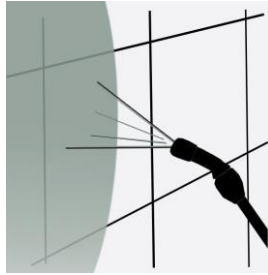
STEP 5.
Rinse well with water. Allow surfaces to dry before allowing traffic or sealing.

CLEANING (cont)...

DIRECTIONS FOR USE: MANUAL APPLICATION WALLS



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



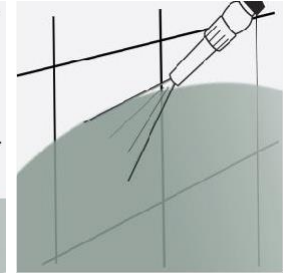
STEP 2.
Wet the surface with the solution and leave for 10 – 15 minutes. Work in manageable areas at a time.



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

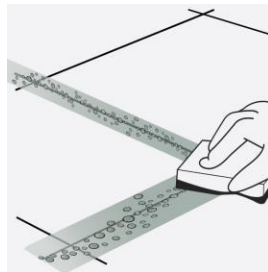
DIRECTIONS FOR USE: RESTORING PATCHY DISCOLOURED GROUT JOINTS FLOORS

INTENSIVE CLEANING TO EVEN THE APPEARANCE OF THE JOINTS

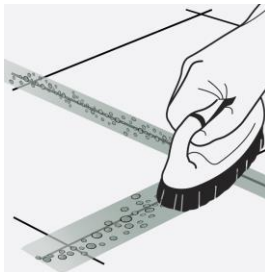
Modern cement based grouts can occasionally dry patchy for a number of reasons...separation of ingredients, slightly too wet a mix, slightly too dry a mix, not mixed well enough, not mixed in the correct proportions...etc. The following is an intensive cleaning guide to help restore patchy grout to a more even appearance.



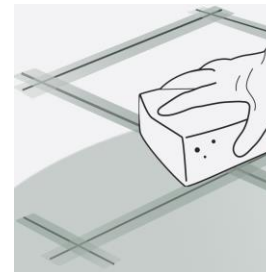
STEP 1.
Dilute solution 1 : 1 with cool water.



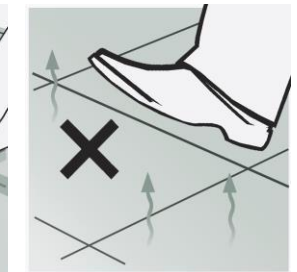
STEP 2.
Apply to the surface using a sponge and leave for 5 minutes.



STEP 3.
Scrub grout joints to release the residues.



STEP 4.
Immediately sponge up released residues and rinse well with water. Change rinsing water frequently.

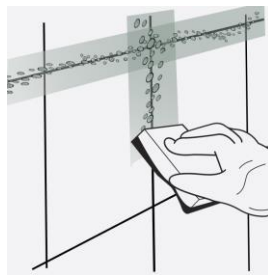


STEP 5.
Allow surfaces to completely dry before sealing or allowing traffic.

DIRECTIONS FOR USE: RESTORING PATCHY DISCOLOURED GROUT JOINTS WALLS



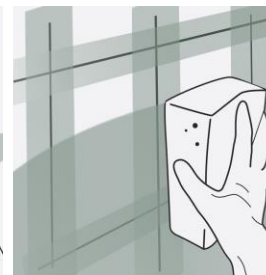
STEP 1.
Dilute solution 1 : 1 in cool water.



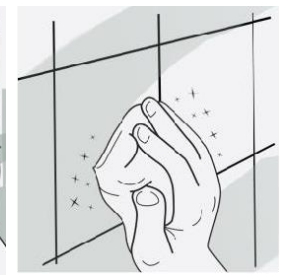
STEP 2.
Apply to the surface of the grout joints using a sponge soaked in the solution.



STEP 3.
Scrub immediately using a black emulsifying pad.



STEP 4.
Rinse with cool water several times. Change rinsing water frequently.



STEP 5.
Allow surfaces to dry naturally. On higher glazes buff with a dry cloth to finish.

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 it's 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.

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

LTP RUST STAIN REMOVER



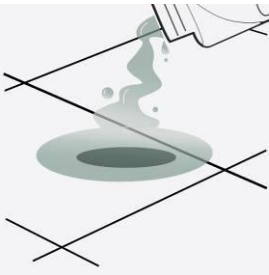
A high performance rust stain remover for interior & exterior use. Removes stains in 15 minutes. Non-acidic formulation particularly suited for delicate applications such as polished marble, removing stains by acting directly onto the surface. Ideal for all types of polished and unpolished natural and 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

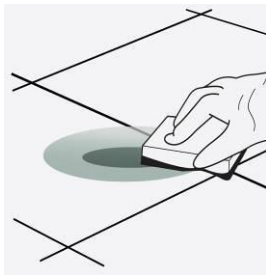
TECHNICAL FEATURES

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

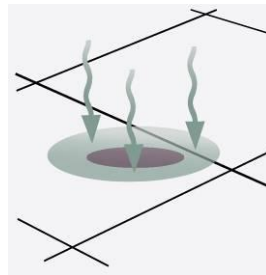
DIRECTIONS FOR USE MANUAL APPLICATION: FLOORS



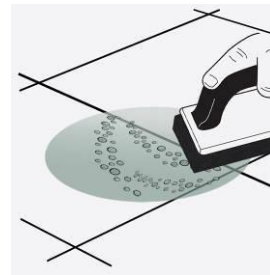
STEP 1.
Ensure surface is as dry as possible before application.



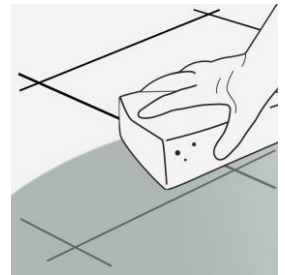
STEP 2.
Apply undiluted generously to the surface of the rust stains.



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. Treated surfaces will initially turn purple. This will stop when all of the rust stain has been removed. Rinse well with plenty of water.

AFTERCARE

DAILY/WEEKLY/MONTHLY CLEANING...



LTP PORCELAIN FLOOR TILE CLEANER

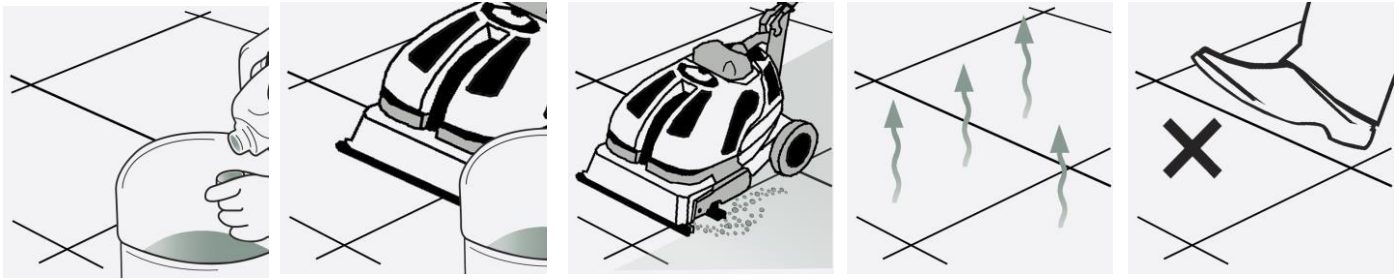
A gentle cleaner especially formulated to clean natural stone, porcelain and ceramic without damaging the grout or tile, leaving the floor with a fresh clean fragrance. Suitable for use on polished and unpolished surfaces. Can also be used in scrubber drier machines if necessary. For more information refer to the technical data sheet.

APPLICATION	1 ltr	5 ltr	25 ltr
20 M ² surface	40 washes approx	200 washes approx	N/A

TECHNICAL FEATURES

- Environmentally friendly
- PH Neutral
- Phosphate free
- Non film forming
- Commercial & domestic
- Surfaces with sealed grouting
- Fresh clean fragrance
- Interior & exterior use

DIRECTIONS FOR USE SCRUBBER DRIER: LARGER FLOOR AREAS



STEP 1.
Dilute 1 : 20 with warm or cool water.

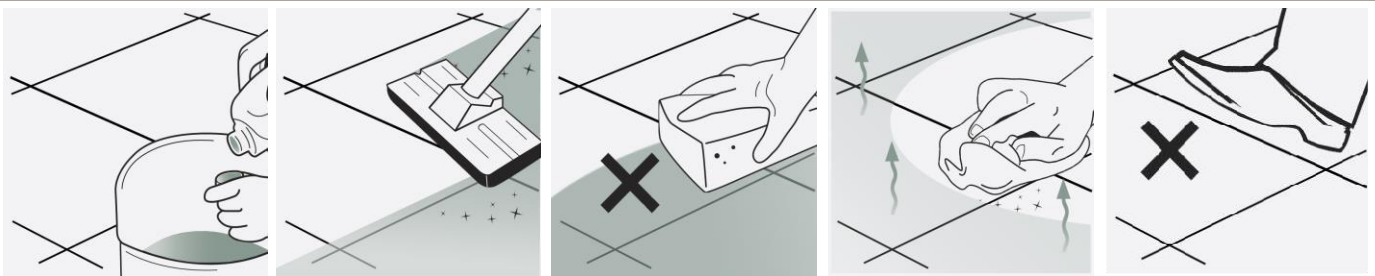
STEP 2.
Fill scrubber drier machine with the solution.

STEP 3.
Set solution release rate on the machine and scrub surfaces.

STEP 4.
Leave surfaces to dry naturally.

STEP 5.
Keep off of surfaces until they are completely dry.

DIRECTIONS FOR USE MANUAL APPLICATION: FLOORS



STEP 1.
Dilute 1 capful of cleaner per litre of warm or cool water.

STEP 2.
Mop surfaces. Microfibre or string mops can be used.

STEP 3.
No need to rinse.

STEP 4.
For best results on polished surfaces gently buff using a soft cloth until dry.

STEP 5.
Keep off of surfaces until they are completely dry.

FURTHER INFORMATION - AFTERCARE:

One litre of product, when diluted correctly will provide up to 40 washes.

Always follow detailed instructions on the product labels.

Avoid using steam cleaners and strong alkali or acid based cleaning detergents on ceramic and porcelain surfaces, as they can compromise protection offered by grouts that offer resistance to mould and mildew. Also, If grout & porcelain protection has been applied then this can also be compromised. Many ordinary detergents can dry on the surface after cleaning and gradually build up a slight cloudy residue. When this residue is made wet it can be very slippery.

Cleaning surfaces routinely with a PH neutral cleaner should ensure that surfaces remain clean and free of any residue.

Neglected or grubby looking surfaces can be restored by intensively cleaning with LTP Grimex.

Heavier traffic levels and commercial floor areas subjected to hard footwear may require periodic intensive cleaning using LTP Grimex.