



Technical Data Sheet

Sealit Multipurpose

Acrylic, clear waterproofing compound.

DESCRIPTION

Shalex Sealit Multipurpose is a water based general purpose waterproofing compound designed for use on a wide variety of substrates.

Sealit Multipurpose is especially suited to sealing and protecting porous vertical masonry surfaces such as split faced or decorative concrete blocks. Sealit is particularly effective against wind driven rain and unlike 'water repellent' style sealers is able to withstand hydrostatic pressures caused by significant weather events. Sealit is UV stable and provides long term protection (ie > 10 years)

Sealit Multipurpose dries to a clear low sheen finish and remains flexible to accommodate minor movement in the substrate. Sealit can be over painted with any acrylic paint. Due to exceptional adhesion Sealit is well suited as a primer for acrylic architectural topcoats, elastomerics and roofing paints.

Sealit is a very soft sealer and not suitable for horizontal surfaces subject to traffic (eg paths, pavers, floors etc) unless they are to be covered with tiles, carpet, or harder coatings.

USES

Sealing and protecting split face or coloured masonry blocks
Clay and Masonry Bricks and Blocks
Concrete & Terracotta Roof Tiles
Waterproofing Render
Sealing screeds, floor and wall pre-tiling
Concrete Tilt Panels
Cement Sheeting (Fibro, Blue Board)
Concrete Slab Floors
Protecting Particle Board Flooring
Fishponds, Concrete Water Tanks & Water Troughs
General Wet Areas, Balconies and Leaking Showers

FEATURES

- Tested to ASTM E514.74 – Rated 'E' for Excellent on water permeance
- Excellent Adhesion
- Cost Effective & Gives Long Lasting Protection
- Highly flexible
- Waterborne for easy application and cleanup
- Safe to use with minimal vapour
- Dries to a clear low sheen finish
- May be painted over with any acrylic based paint



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TECHNICAL DATA

Number of Coats	2-3
Coverage Rate	10M ² per Ltr (Soak In Mix) – 1 st Coat 5M ² per Ltr 2 nd Coat (Dependant on Substrate) As a guide 1 x 15ltr pail covers 75 M ² (2 Coats)
Drying Time	Recoat 1-2 hours (at 24°C) Dry – 2-4 hours (at 24°C) Fully Cured – up to 7 days Note – Sealit is dry when it becomes clear, but may remain tacky for longer periods.
Cleanup	Before dry - with water After dry – Thinners, Acetone or Xylene solvents
Shelf Life	12-18 months in uncontaminated container kept well sealed and out of direct sunlight. Store below 35°C
Application Temp	5°C - 35°C
Application	By Low Pressure Sprayer, Brush or Roller

APPLICATION INSTRUCTIONS

Surface Preparation

All surfaces should be clean, sound and free from dry or loose material. Check for presence of waxes, mould release or bond breaking agents, oils or other contaminants than may affect adhesion before application. Given the wide variety of substrates and site specific conditions, it is advisable to check adhesion prior to job commencement.

Moulds, lichen or fungal growth should be treated with a suitable algicide or if unavailable with a dilute bleach solution (1 part household bleach to 2 parts water) to kill any spores. Leave the bleach solution in contact with the surface for approx 10 minutes then liberally rinse with clean water and allow to completely dry.

Masonry should be flush pointed. Make good any defects in surfaces. Remove any dags, high points or protrusions prior to application. Any laitance in concrete surfaces should be removed with wire brush or by grit blasting.

Application

Sealit Multipurpose is designed as a penetrative sealer. To ensure sufficient product is applied to the surface **we recommend application with a backpack style low pressure sprayer** (eg pesticide sprayer) as this allows a constant stream of Sealit to be applied at a consistent rate across the substrate. Paint sprayers may also be used at low pressure – do not 'mist' Sealit as overspray may be difficult to remove.



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Brush or rollers may be used for smaller areas (eg window reveals, etc) but **users should ensure liberal application** with frequent brush or roller re-loading. Mask all areas not intended for waterproofing well prior to application. Drop cloths are recommended to protect paths and walkways from run off. Sealit is not toxic to plants or the soil but may remain soft and sticky on non porous surfaces if left to dry.

While Sealit Multipurpose is a water based waterproofing agent **we recommend the use of gloves when using this product**. The superior adhesion and water repellent properties of Sealit Multipurpose may cause 'sticky hands' even after washing well with soap and water.

Application Method

Sealit is normally applied as a 2 coat system. Additional coats should be avoided as these will increase sheen level (ie Glossy finish), and may result in slight water whitening during prolonged wet periods.

Sealit Multipurpose is designed to work below and at the surface. The application process differs significantly from traditional coatings like paints and varnishes where two/three even coats are required. The primer coat for Sealit is effectively 2-3 coats and requires more time and attention to ensure long lasting and effective protection.

If applied correctly, waterproofing is mostly achieved in the first coat or the primer coat. The absorption of Sealit is dependent on the porosity of the surface, weather conditions, and the ability of the applicator to keep the surface wet during the primer coat to allow sufficient Sealit to be drawn deep into the surface. Application of the primer coat requires time and care – plan your job accordingly.

Priming (IMPORTANT – This Step Must Be Followed)

Dilute 1 part Sealit with 1 part clean water as a primer or 'soak in' mix.

For spray equipment we suggest running clean water through to wet the lines first. Fill the reservoir with the primer mix (1 part Sealit to 1 part water) and test sprayer on the ground until the stream becomes white. Adjust spray pattern to achieve a fine, even spray – avoid narrow streams, very fine or mist settings.

The key to successful application is to firstly 'wet out' the substrate then continue to apply the primer coat, using the capillary action or absorption to draw the primer deep into the masonry. 'Wetting out' the surface will differ from surface to surface due to differing porosity, density and surface tension. Darkening of the surface typically indicates the surface is 'wetting out' and the primer is being absorbed.



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As Sealit is a water based product it may be applied to damp surfaces. Wet surfaces should be avoided as these will not draw as much primer mix into the surface or as deep as a dry surface would. Avoid applying to hot surfaces as these may prematurely dry the primer and make it difficult to get enough primer to soak in.

With difficult to wet out surfaces, hot surfaces, or in very hot and windy conditions, the application of a fine mist spray of water over the surface may help absorption prior to application of the primer coat. The surface should be slightly damp, not wet.

As site conditions will differ from project to project we suggest you test a small area first to see how quickly the primer coat is absorbed and how much primer can be applied before run off occurs.

Apply primer coat liberally, almost to the point of run off, saturating the surface. Work from top to bottom on vertical surfaces. Coat all surfaces working the product into any voids or depressions. With bricks/blocks, pay particular attention to mortar joints, ensuring these are fully 'wet out'. Direct spray toward the top of each mortar joint ensuring the bottom face of each brick/block is fully coated.

As soon as the surface draws the primer coat in and while the surface is still damp re-apply to the same area. Do not allow the surface to dry. Re-apply over the same area 2-3 times – keep applying until the surface no longer draws the primer coat in. It may take longer between each pass for the primer to be absorbed.

The aim is to totally saturate the masonry, and frequent light passes over the same area with the sprayer while still damp will provide the best conditions for maximum absorption. For larger areas, in hot and/or windy conditions we suggest you work in smaller sections to ensure the surface does not dry before multiple primer coats can be applied over the same area.

The primer coat will turn the wall white but will dry clear. Allow at least 1 hour to dry (at 24°C) or wait until the surface appears dry and clear. Do not return unused primer mix to pail.

Apply a second top coat of Sealit – do not dilute the second coat, apply neat from the pail. As the surface will already be sealed the top coat will not be as quickly absorbed as the primer coat and should be applied more sparingly – aim for an even coverage and avoid runs where possible.

Allow at least 24 hours (at 24°C) to dry before applying screeds, tiles, or any other coatings or coverings. The wall should be clear with no dark sections. Sealit Multipurpose may remain tacky on some surfaces until fully cured.

Note: Sealit is not designed as a final coating for horizontal/trafficable areas and should be covered or overcoated.



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Sealing Single Leaf Masonry

Sealit Multipurpose is an effective waterproofing solution for single leaf masonry construction. Application method is critical to ensuring complete coverage of the surface and an effective barrier against water ingress.

The architect/builder/applicator should consider the following:

- The composition of mortar mixes and laying technique of trades may vary from location to location making quality control difficult. Inclusion of a waterproofing admix into the mortar such as Shalex Concrete Bond is strongly recommended.
- Vertical masonry walls subject to wind driven rain (eg no eave protection) may require additional coats to ensure all masonry is coated. Wind driven rain can enter a building through the smallest area of unprotected masonry and typically this is through a poorly constructed mortar joint.
- Exposed gable ends and walls facing into prevailing weather should be given additional coats to ensure coverage. Spraying while backrolling in an upward motion is particularly effective in ensuring adequate coverage.
- The bricklayer should ensure mortar joints are full and where possible compacted (eg ironed). Particular attention to perpendicular joints is required as this is typically the main point of failure.
- Sealit provides a fine waterproof 'skin' over the masonry surface as well as waterproof protection at and just below the surface. Structural movement during or after curing of mortar and concrete may open small cracks that will require subsequent re-coating. Coating 'green' masonry may result in cracks through mortar joints which would require re-sealing. Ideally masonry should be left for 28 days to ensure maximum moisture loss and allow for hairline cracking to appear (if any) prior to application of Sealit.
- The presence of dust may interfere with absorption of Sealit into the masonry. All surfaces should be free from dust. Washing the walls prior to application will minimise the risk of poor absorption.
- Split face or textured masonry provides a difficult surface for the applicator to ensure total coverage. Sealit must fully 'wet out' all surfaces of the wall. The primer coat is key in providing sub-surface protection and the applicator should ensure Sealit is applied liberally.
- Application of Sealit with a sprayer may result in beading on some masonry. It is important Sealit be given sufficient time to soak into the masonry. A brush or roller may be required to reduce surface tension and ensure the masonry is fully 'wet out'. Brushing out mortar joints during application is an additional precaution that will minimise the risk of unsealed areas.
- Application on hot masonry or windy days may cause premature drying without giving Sealit an opportunity to penetrate. In these cases application of a fine mist of water prior to application of Sealit will assist in absorption. Note – the walls should be just damp – not wet.



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- All penetrations, flashing and openings should be well sealed with an appropriate sealant. Sealit is not designed to bridge gaps.
- In high wind locations large volumes of wind driven rain can enter the building through very small openings or unprotected areas of wall. Negative air pressure is created inside a building by opening doors or windows on the opposite side to the prevailing wind and this can 'suck' water through the smallest openings or unprotected sections of wall. Wind can also drive water upwards under poorly sealed eave, soffit or metal flashings so care should be taken during construction to ensure these are protected with sealants or caulks.
- Interior timbers, wall linings or fixings adjoining single leaf masonry walls should be protected to minimise any damage from water leaks. Waterproofing timbers, fixing linings to raised battens, installing voids and other features should be considered during both design and construction.
- Reactive clay soils will typically result in movement in the masonry and can result in cracks opening along mortar joints. Sealit will accommodate minor movement, however large movements may result in cracks through which water may enter the building. Once the waterproofing in the exterior façade is breached moisture can quickly travel through the walls in all directions
- Small leaks appearing on the interior walls following application of Sealit generally highlight areas where coverage is not adequate. This may be a result of small areas being missed, insufficiently coated or where cracks have appeared after application. These areas should be retreated with a heavily loaded long nap roller or brush, keeping Sealit in contact with the wall for as long as possible. Larger areas can be re-coated by spraying and back rolling in an upward motion at the same time.

OTHER USES

Slab Floors

Apply single primer coat and one neat coat to slab before laying carpet, timber or vinyl flooring to protect from moisture. Ensure the slab is well cured before application. Note Sealit Multipurpose is not designed for sealing polished concrete or as a final coating for trafficable areas. We recommend Shalex Glaze for this purpose.

Plywood & Particle Board Flooring

Sealit is well suited to protecting plywood or particle board flooring from excess moisture during construction and will reduce the risk of sheet damage through swelling. Unlike many silicone based 'water repellents' Sealit aids adhesion of subsequent coatings/coverings and it will assist in binding any loose or dusty sections of timber sheet.



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Apply one coat neat for moisture protection to face and edges of timber sheets. Ensure edges and inside of grooved sheet edge is well coated.

Note Sealit should not be used if the sheets are to be sanded/polished or finished with a stain.

Terracotta or concrete pots and planter boxes

Apply primer coat and one neat coat to all interior surfaces, ensuring corners are well covered. Allow Sealit Multipurpose to dry clear before filling.

Leaking Showers

Sealit Multipurpose is designed to penetrate the porous grout and seal leaking showers and balconies. For multiple leaks it may be necessary to plug the waste temporarily and flood the floor. All tiled and grout areas should be treated with a suitable algicide or if unavailable with a dilute bleach solution (1 part household bleach to 2 parts water) to kill any spores. Leave the bleach solution in contact with the surface for approx 10 minutes then liberally rinse with clean water and allow to completely dry. We suggest using a sauce bottle or similar to direct Sealit Multipurpose onto the grout lines. Follow with a small brush working the compound into the grout with a forward/backward brushing motion. **Important - Wipe Sealit from surface of tiles before dry.**

Allow at least 48 hours before using the shower.

Water Tanks & Troughs

Sealit Multipurpose has been used to successfully seal leaking concrete water tanks and troughs. Sealit is designed to penetrate the concrete and block the passageway of water through fine cracks and porous sections. Sealit is not able to withstand hydrostatic pressure until cured. Sealit is particularly effective when used in conjunction with caulks or fillers on larger cracks and stops water travelling around and behind the caulk or crack repair sites in tanks.

Tanks should generally be empty and dry before application. As Sealit is water based it will not be able to fully cure where water is present in the tank due to high humidity.

Application on interior and exterior surfaces will provide the best results. Any large cracks should be filled with a suitable caulking compound such as epoxy putties or polyurethane caulks prior to application of Sealit.

The concrete should be pressure washed to remove any algae and dirt. Where possible the concrete should also be dry prior to application of Sealit, however application over damp surfaces may be successful if the product is able to cure before being diluted or washed away. The use of a heat gun or hairdryer will assist in curing Sealit and drying out the surface as much as possible prior to and after application.



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Multiple applications may be required to stop leaking in trouble areas. To ensure maximum absorption of Sealit into the concrete we recommend application in an upwards motion with a long nap roller, moving very slowly. This ensures a puddle of Sealit is in contact with the surface for as long as possible. Work back over the same area multiple times while still damp. The aim is to totally soak the surface in Sealit so that it can penetrate into the concrete. Spraying too much, or working too quickly will see most product bead and run off and the result is less effective.

Allow the surface to dry before filling with water. Both temperature and airflow assist in curing. Placing a fan inside the tank will speed up curing. While Sealit Multipurpose is suitable for potable water we suggest a quick rinse with a hose prior to filling.

Refer to our data sheet entitled "Sealing Tanks & Troughs Guide" for more information.

TRANSPORT / STORAGE

Pail Sizes	125ml Trial Pack, 1Ltr, 5Ltr, 15Ltr, 200Ltr, 1000Ltr
Weights	150g, 1.1kg, 5.5kg, 16.5kg, 224kg, 1060Kg
Dangerous Goods Class	N/A

DISCLAIMER

Customers are advised to consider the information in this data sheet in the context of how the product will be used, including surfaces and any other products used. The information provided in this data sheet represents our best scientific and practical knowledge. Any advice, information or assistance provided by Shalex in relation to its products is given in good faith, however is provided without liability or responsibility. Due to the wide variety of site conditions we are unable to assume liability for any loss that may arise from the use of our products. The user is responsible for checking the suitability of products for their intended use.