



Technical Data Sheet

Glaze

High performance clear sealer for porous surfaces.

DESCRIPTION

Shalex Glaze is a high performance water based clear sealer designed to enhance and protect a wide variety of porous surfaces on both residential and commercial projects. Glaze is a new generation coating providing the performance benefits normally only found in commercial sealers in a 'user friendly' water based product.

Glaze is especially suited to sealing and protecting porous horizontal masonry surfaces such as clay, concrete and brick pavers, sandstone and concrete.

Glaze's low odour, rapid dry and unique self crosslinking formulation make it ideal for sealing and protecting a wide range of interior surfaces such as interior bricks, blocks, stone and timber.

Based on a self crosslinking nano polymer, Glaze has excellent early resistance to water whitening and when cured will remain clear even when submerged under water for extended periods.

Glaze dries to a mid sheen finish and provides a smooth washable surface, protecting from stains, spills and reducing the ability of moulds, algae and lichen to discolour the surface. Glaze can be over painted with any acrylic paint or can be tinted if required.

Glaze is a UV stable pure acrylic designed to provide many years of service in the harshest conditions. It is safe to use, has a low VOC formulation exceeding all environmental regulations and is very low odour making it ideal for application in enclosed spaces or for those with sensitivity to harsh chemicals and odours.

With the applicator in mind, Glaze is quick drying and provides for 'wet on wet' application. It has excellent resistance to alkaline substrates allowing for application over 'hot' concrete well before traditional coatings could be applied. Being a water based coating Glaze can also be applied over damp or wet concrete. Higher sheen levels can be achieved by applying additional coats giving the applicator greater flexibility to achieve the perfect finish.

Trials have shown Glaze has excellent chemical, alkaline and efflorescence resistance and has good resistance to hot tire marking making it ideal for sealing and protecting garage floors and driveways. Glaze is non yellowing and enhances colour and substrate appearance.

Glaze may be used both on indoor and outdoor surfaces with confidence.



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USES

Sealing and protecting concrete slabs
Garage floors
Clay, brick and concrete pavers
Concrete & terracotta roof tiles
Sandstone
Limestone
Terracotta Pots and Ornaments
Timber (not suitable for exterior decking applications)
Plywood, MDF & Particle Board Flooring
Cardboard

** Note – Glaze is designed for porous substrates, it is not suitable for application over existing coatings, sealers or waxes. Glaze may make smooth surfaces slippery when wet care should be taken around wet areas and/or anti slip additives should be considered.*

FEATURES

- One Component
- Cross linking formula – won't water whiten when cured
- UV stable
- Interior and outdoor use
- Waterborne for easy application and cleanup
- Safe to use in confined spaces with very low odour
- Rapid Dry
- Dries to a hard, clear mid sheen finish
- Gloss level can be increased by applying additional coats
- Non-Yellowing
- Can be tinted

TECHNICAL DATA

Number of Coats	2-3
Coverage Rate	1Ltr per 10M ² (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 3 days Note – Glaze is dry when it becomes clear. If exposed to water before fully cured Glaze may show some water whitening but will turn clear upon drying.



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Cleanup	Before dry - with water After dry – petrol thinners or 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 (note less porous surfaces should not be coated in temperatures below 15°C)
Application	By Low Pressure Sprayer, lambswool pad, 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, previous coatings or other contaminants than may affect adhesion before application. A simple test is to drop a small amount of water on the substrate to see if it is absorbed. Water beading usually indicates the presence of a contaminant and Glaze **should not** be applied. Silicone dipped pavers are not suitable for coating.

Glaze is designed for use on porous substrates. Given the wide variety of substrates and site specific conditions, we strongly advise testing a small area prior to large scale application.

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 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.

Hot surfaces may cause Glaze to dry prematurely. We recommend applying the first coat when the temperature is below 25°C to allow penetration into the substrate before drying occurs. Alternatively, wash down the surface and apply Glaze while the surface is still damp (but not visibly wet).

Precaution – application of multiple coats of Glaze may result in a very smooth surface that can present a slip hazard in wet areas. We recommend a trial area is tested and/or the application of an anti slip additive into Glaze. Refer to our data sheet entitled “Non Slip Additives” available on our website for more information.



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Application Method

Intercoat adhesion is improved by applying multiple thin coats – do not attempt to flood the surface and allow to pool as this will prolong drying and may result in a poorly formed bond with the surface.

Glaze may be applied with a brush, roller, lambswool pad or low pressure airless equipment.

Priming (**IMPORTANT – This Step Must Be Followed**)

Glaze provides the best protection where it is allowed to penetrate the substrate. To ensure sufficient penetration Glaze may be diluted with up to 50% water for the first coat.

For very porous surfaces eg sandstone, broomed concrete dilute at 1 part Glaze to 1 part clean water. For less porous surfaces eg smooth concrete pavers, terracotta, dilute at 2 parts Glaze to 1 part clean water.

Apply liberally, working the product into all areas – keep a wet edge. Allow 1 hour to dry (at 24°C). Do not return unused product to pail.

Application

Coat all surfaces working the product into any voids or depressions. Ensure product does not pool in larger voids or depressions. With bricks/blocks, pay particular attention to mortar joints, ensuring these are fully 'wet out'.

Allow to dry to clear before applying subsequent coats. Note multiple coats of Glaze may be applied but drying time for each coat will increase. **Do not leave for extended periods between coats as this may increase the risk of adhesion failure as glaze cures and fully hardens over 48 -72 hours.**

Sheen levels will increase as more coats are applied and the natural texture of the surface will be replaced with a smooth glossy finish. Applying too many coats or applying them too thickly is likely to cause some smoother substrates to become slippery when wet. Addition of an anti slip additive is recommended in the final coat when used in wet areas, eg around swimming pools. Refer to our technical data sheet entitled "Non Slip Additives" for more details.

Warning: – heavy vehicles with hot tyres may cause damage on driveways.

Driveways – **Glaze is not suitable for application over previously sealed concrete eg stencilled concrete.** Most driveways are sealed with a 'wet look' solvent based sealer and these sealers are not compatible with Glaze as the solvents may prevent adhesion, curing and cross linking even after many years.



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OTHER USES

Particle Board Flooring

Two coats neat for dust and stain protection. Note flooring may become slippery if multiple coats are applied.

Interior Masonry

Apply primer coat and one neat coat to all interior surfaces, ensuring masonry joints are fully 'wet out'. Applying additional coats will help reduce rough surfaces on high traffic areas, eg hallways and doorways.

Interior Timber

Apply two neat coats to enhance colour and provide a hard washable surface. Note: Glaze is not suitable for exterior timber exposed to sun and rain eg decking, as movement may cause cracking and lead to delamination of the coating.

Sealing Cardboard, Mosaics & Crafts

Apply two or more neat coats to provide a hard clear waterproof coating. Glaze is best suited to porous materials. An adhesion test is advised on non-porous surfaces and application at temperatures exceeding 15°C. Glaze is not suitable for application over plastics, aluminium, porcelain, glazed tiles or natural stone

TRANSPORT / STORAGE

Pail Sizes	125ml Trial Pack, 1Ltr, 5Ltr, 15Ltr, 200Ltr, 1000Ltr
Weights	155g, 1.1kg, 5.2kg, 15.5kg, 228kg, 1080Kg
Dangerous Goods Glass	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.