



## Product Specification

# PORTER'S MINERAL SILICATE STAIN

---

### PRODUCT DESCRIPTION:

Porter's Mineral Silicate Stain is a highly durable coloured silicate dispersion stain for the decoration and protection of old and new fair-faced concrete.

The translucent nature of Porter's Mineral Silicate Stain colours, protects and tones down blemishes and defects, creating a more uniform finish, whilst allowing concrete to retain its natural appearance, character and surface textures.

When painted onto render, bagging, concrete, bricks, sandstone or other unpainted masonry surfaces, Mineral Silicate Stain soaks into the surface and chemically bonds with the substrate, forming a bond known as "silicification".

Dries to a natural, mineral matt finish that is breathable and mildew resistant. Delivers a high resistance to weathering and protection from atmospheric pollutants.

### LOCATION:

Exterior.

## ENVIRONMENTAL INFORMATION:

This product contains: 2.84g/L VOC's untinted (Volatile Organic Compounds contribute to atmospheric pollution).

The following descriptors have been adopted by APAS (Australian Paint Approval Scheme):

Very High	>250 g/L
High	100 – 249 g/L
Moderate	50 – 99 g/L
Low	5 – 49 g/L
Very Low	<5 g/L

This product is classified as Very Low VOC\* by the Australian Paint Approval Scheme.

## SUGGESTED APPLICATIONS:

Cement render, bagged brickwork, concrete, masonry blocks, bricks, sandstone, off-form concrete, tilt up concrete panels and most absorbent building stones. All surfaces must be bare, they must not be sealed or hydrophobically treated, and all bond breakers/release agents and surface contaminants removed.

All surfaces must be chemically neutral or alkaline, and old film forming paints must be removed.

## COLOUR:

Porter's Mineral Silicate Stain is available in various colours, which can be tinted at different strengths to increase transparency. May be diluted in any ratio depending on the translucency required, for example, 75%, 50%, 25% etc. The colour cards replicates the appearance of 100% tint strength, which is full opaque coverage. Do not dilute with water or any other substances.

Custom colour matching available.

## LIMITATIONS:

Porter's Mineral Silicate Stain is not suitable for use on glazed bricks, glazed tiles, timber, metal, and paper faced plasterboard. Mineral Stain will not bond to a synthetic or non-masonry surface. Mineral Stain should not be applied onto any painted or sealed surface. Does not bond to acrylic materials.

Not suitable on floors.

Do not apply Porter's Mineral Silicate Stain over construction or expansion joints.

Application by spray gun is inadvisable because of the effects of alkaline overspray onto nearby glass, vehicle finishes etc. Ensure all glass, aluminium, metal finishes and vehicles are protected from Porter's Mineral Silicate Stain, which, due to the silification bonding process, etches on and can prove extremely difficult to remove.

Do not apply in high humidity, below 10°C or above 30°C.

## PREPARATION:

### CURING OF NEW SUBSTRATES:

Newly completed walls should be allowed to cure before the application of Mineral Silicate paint systems .

Precast and Insitu Concrete	28 Days
Bagged cement surfaces	14 Days
Bricks and Mortar	28 Days
Filled Concrete Blocks	28 Days
Cement Render	14 Days for every 10-15mm application

Concrete poured in cold, damp, and humid environments may require longer curing times than the times suggested above.

#### PREPARING OFF-FORM CONCRETE AND TILT-UP SLAB CONSTRUCTION BEFORE PAINTING:

All traces of bond breakers/release agents must be completely removed. We recommend Dulux® Acratex® TiltWash™ cleaner. Remove any “glazed” or “polished” appearance by sanding or grinding the surface, or by treating with a citric acid solution.

Dilute 1kg of citric acid with 5 litres of water. Apply to the surface with a nylon brush then allow to stand for 15 minutes. Rinse with clean potable water and allow to dry.

To test the treated area for suitability to continue with painting: sprinkle surface with water and if water absorbs (noticeably leaving a dark stain) then surface is suitable for Mineral Silicate Stain application. If water does not absorb, the surface is not suitable, and the process will need to be repeated.

#### PATCHING AND REPAIRING CONCRETE:

Patch and repair damaged areas and holes left by scaffold tie ins or heavy aeration using a cementitious-based patching compound that matches as close as possible to the original surface in colour, texture and porosity.

In some instances where patching has been carried out without this consideration and does not match the original in colour and porosity, one coat of Porter’s Mineral Silicate Primer, prior to staining, can assist with achieving a more even colour result.

Porter’s Mineral Silicate Stain is designed to penetrate the surface, so it cannot fill cracks, aeration or chips, or smooth out rough patching or distinctly different areas of surface texture or absorbency.

#### OFF-SITE PAINTING OF PRE-CAST AND STRUCTURAL PANEL SYSTEMS:

If painting cannot be completed in-situ, care should be taken to maximise colour uniformity by considering the following:

- “Boxing” paints or stains to a professional standard and purchasing sufficient quantity of paint or stain as one order.

- Avoiding damage in transit. Pre-cast concrete and prefabricated masonry products are susceptible to damage during transport, during wrapping or in storage, which may affect the painted finish.
- Paint touch ups, even with the same paint material, may be evident if care is not taken.

## BOXING:

To ensure ongoing colour consistency, especially on larger projects where multiple batches are used, we recommend mixing several cans or pails of stain together.

## APPLICATION:

On hot, dry or windy days whenever possible work in shaded areas, following the sun around the structure. Do not apply to sun-heated substrates.

Complete the painting of all adjacent surfaces and trim items prior to the application of Porter's Mineral Silicate Stain.

Splashes onto glass, footpaths, timber etc should be removed *immediately* with water.

Substrate should new/unpainted masonry and be a clean well-held surface free from loose material, dirt, grease, oil, mould, mold release, curing compounds or any other contaminant that is likely to prevent adhesion and or penetration of the substrate. Loose and powdery surfaces must be made sound or stabilized.

### TEST COLOUR AND TINT DILUTION PRIOR TO COMMENCING WORK:

Test on-site to define the colour and to confirm the degree of tint dilution required.

Mix thoroughly by using a flat stirrer for a couple of minutes. Apply 2 coats Porter's Mineral Silicate Stain by brush, 10-13mm nap roller or fibre applicator. Care should be taken to ensure an even application rate, avoiding lap and roller marks.

Cutting in should be completed progressively. If large areas must be painted, work without interruption, with several painters stationed at different levels working simultaneously. Since silicate paints react sensitively, care must be taken to avoid visible laps. Always maintain consistent wet edge for uniform absorption and curing.

Where possible work in shadow. Use only one method of application, do not mix application tools.

#### **IMPORTANT NOTE:**

Porter's Mineral Paint is a stain, and may be difficult to touch up, particularly when the tint is heavily reduced for low opacity. Overlapping of new over old increases opacity, creating distinct overlapping marks. Diligence and care should be taken when applying to avoid overlap.

#### **DRY TIME**

Touch dry 30 minutes. Allow minimum 4 hours dry time between coats. Do not apply in high humidity, below 10°C or above 30°C or when temperatures below 10°C are expected in the next 4 hours.

#### **COVERAGE RATES:**

Coverage of Mineral Silicate Stain is highly dependent on substrate porosity.

Porter's Mineral Silicate Stain covers approximately 12-14 m<sup>2</sup> per litre, depending upon porosity, surface texture and wastage rates.

#### **WASH UP:**

Water.

## **PACKAGING:**

Porter's Mineral Silicate Stain is available in 500ml, 4L, and 13L.

## **STORAGE:**

Store in a cool dry area, protected from frost and direct sunlight.

## **PRECAUTIONS:**

Keep out of reach of children. Avoid swallowing. Avoid eye contact. Splashes to the eye may cause eye irritation. When spraying, inhalation of mists may produce respiratory irritation.

Avoid skin contact. If accidental contact occurs, rinse immediately with water.

For detailed information refer to the product label and the current Material Safety Data Sheet available through Customer Service or on our website.

Check colour before use.

## **WARRANTY:**

**10 YEAR GUARANTEE:** Porter's Mineral Silicate Stain is guaranteed against peeling, flaking and blistering on external applications for 10 years if applied according to the specified instructions. This guarantee applies to residential work only and does not cover paint failure caused by any breakdown of coatings or substances applied previously or in the event of substrate failure. If the product does not perform as specified, we will replace the goods free of charge.

The warranty above applies for 10 years from the date of purchase. To make a claim under the warranty, please contact Porter's Paints using the details shown and provide details of your claim. You must show

proof of purchase and bear all expenses incurred in making a claim. The benefits of this warranty are in addition to other rights and remedies under any applicable law.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

## MANUFACTURER'S/DISTRIBUTOR'S DETAILS:

Porter's Paints

15 Gow St

Padstow NSW 2211

Australia

Phone: (02) 9698-5322

Toll free: 1800 656 664

Fax: (02) 9699-5322

E-mail: [enquiries@porters.com.au](mailto:enquiries@porters.com.au)

Web: [www.porterspains.com](http://www.porterspains.com)

Porter's Paints

150 Hutt Park Rd

Gracefield

Lower Hutt 5010

New Zealand

Ph: 0800 672 468

©Dulux and Acratex are registered trademarks and TiltWash is a trade mark of DuluxGroup (Australia) Pty Ltd