



Product Specification

Product Name:

PORTER'S MINERAL PAINT

PRODUCT DESCRIPTION:

Porter's Mineral Paint is a premium silicate paint, providing unparalleled colourfastness and excellent durability. When painted onto render, bagging, concrete, bricks, stone or other unpainted masonry surfaces, Mineral Paint penetrates and chemically reacts with the substrate to "petrify", otherwise known as "silification". The result is that the cured paint forms an inorganic structure with a very strong bond to the substrate, and cannot crack, peel or flake. Porter's Mineral Paint contains "water glass" which is water soluble alkali silicate. "Water glass" is made by melting a mixture of pure quartz sand and potassium carbonate (pot ash). Normal glass contains calcium, magnesium, and aluminium silicates, which are insoluble in water. "Water glass" can be dissolved in hot water, and is a key ingredient of Porter's Mineral Paint. Dries to a natural matt finish. Compared to emulsion paints, which require recoating after some years, Mineral paint is durable and colour stable for several decades. Solvent free, no smell, and is non-combustible.

LOCATION:

Exterior.

ENVIRONMENTAL INFORMATION:

Mineral Paint contains: 14g/L VOC.

Mineral Silicate Primer contains: 10g/L VOC.

APAS* Target level for this product: 70g/L.

Although this product is unique and there is no comparative product type, the closest comparison would be a typical water-based exterior flat paint that has a VOC level of approx. 70g/L

Porter's Paints use only premium grade, low odour, minimal environmental impact raw materials, and wherever possible we buy from Australian suppliers. Our manufacturing processes are zero waste, and all paint formulations are designed for maximum performance with minimum impact on user health.

* 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 should be a sound condition.

COLOUR:

Choose from our range of standard colours, or talk to our staff about your own custom colour.

Porter's Mineral Paint is coloured with UV resistant natural powdered oxides for greatest colour longevity and depth of colour. Natural oxides come in earthy tones such as red oxide, black, ochre, browns, greens and blues, so when we are blending colours for your Mineral Paint, bear in mind that not all colours are achievable, and colours can vary in cost.

Mineral Silicate Primer appears milky white in can, dries clear.

LIMITATIONS:

Mineral Paint is not suitable for use on glazed bricks, glazed tiles, timber, metal, paperfaced plasterboard and fibrous cement sheeting. Mineral Paint is not suitable as a floor or paving paint. Mineral Paint will not bond to synthetic compounds such as epoxy or silicone.

Although Mineral Paint is suitable for fibrous cement sheeting, sheeted building products are designed to be flexible, and often use jointing compounds or tapes to bridge the gaps between the sheets. Mineral Paint is a rock hard finish, and a flexible substrate or movement where the sheets join may cause cracks to appear.

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 Paint, which, due to the silification bonding process, etches on and can prove extremely difficult to remove.

When damp or wet the colour will darken slightly and will lighten to the original colour when dry.

Do not apply Mineral Paint over construction or expansion joints.

Always order sufficient quantities of Mineral Paint to complete the work to eliminate possible colour variation.

Avoid "retouching" the final coat of Mineral Paint as the touched up area will produce a distinctly different tone of colour.

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

PREPARATION:

CURING OF NEW SUBSTRATES:

Newly completed walls should be left to cure before the application of Mineral Paint. Minimum drying/curing times:

Cement render	28 days
Cement "bagged" surface	14 days
Bricks and mortar	56 days
Filled concrete blocks	56 days
Pre-cast and in-situ concrete	56 days

NEW/UNPAINTED SUBSTRATES:

Substrate should be a clean well-held surface free from loose material, dirt, grease, oil and mould. Surface should be thoroughly swept and hosed to remove all dust, loose sand and projecting cement material. Complete the painting of all adjacent surfaces and trim items prior to the application of Porter's Mineral Paint. Apply 1 coat of Porter's Mineral Silicate Primer to entire wall surface by

brush or roller. Touch dry 20 minutes. Allow 2 hours dry time before overcoating with Porter's Mineral Paint.

OFF-FORM CONCRETE AND TILT-UP SLAB CONSTRUCTION:

Concrete and tilt-up surfaces require a thorough acid wash to remove ALL traces of bond breakers/release agents and importantly, to remove any "glazed" or "polished" appearance, as Mineral Paint can only adhere to an absorbent masonry surface. Apply 1 coat of Porter's Mineral Silicate Primer to entire wall surface by brush or roller. Touch dry 20 minutes. Allow 2 hours dry time before overcoating with Porter's Mineral Paint.

PREVIOUSLY PAINTED SUBSTRATES:

In good condition: substrate should be a clean well-held surface free from loose material, dirt, grease, oil and mould. If necessary, sand the existing painted surface to reduce the gloss level and provide a "keyed" surface. Dust down prior to painting. Apply by brush, roller or spray 2 coats of Porter's Limeproof Undercoat Sealer. Touch dry 2 hours. Allow 6 hours dry time per coat. Complete the painting of all adjacent surfaces and trim items prior to the application of Mineral Paint.

In patched/repaired condition: previously painted surfaces with loose, peeling or flaking paint must be made sound by scraping off loose paint. Fill structural cracks, holes and chipped areas with suitable filler, sand and dust off. Cracks repaired with the same material as the render should be allowed to cure for 28 days prior to painting. Spot prime all joints and repaired areas with Porter's Limeproof Undercoat Sealer, then apply two coats to entire area. Touch dry 2 hours. Allow 6 hours dry time per coat.

EFFLOURESCENCE:

Some masonry surfaces show evidence of efflorescence, which is white powdery alkaline salts sitting on the surface. This problem is caused by moisture having penetrated the substrate which puts these salts into a solution, which then migrates to the surface where the water evaporates and deposits the efflorescence salts onto the masonry surface, lifting any paint finishes that have previously been applied. *Note:* the need to determine the source of water penetration should be investigated and prevented. Prior to the application of Mineral Paint the substrate should be treated with Porter's Salt Check, which is a penetrating efflorescence inhibitor. Allow minimum 1 hours dry time. Once treated, apply 1 coat of Porter's Mineral Silicate Primer to entire wall surface by brush or roller. Touch dry 20 minutes. Allow 2 hours dry time before overcoating with Porter's Mineral Paint.

APPLICATION:

(On hot, dry or windy days whenever possible work in shaded areas, following the sun around the structure.)

Apply 2 coats of Mineral Paint using a brush (4x14cm block brush), or a roller (synthetic cover, 2.5cm nap), in a "crow's feet" or random, multi-directional pattern. Take care to brush the Mineral Paint well into the texture of the surface.

Important: Use only one method of application, do not mix application tools. It is important to keep a "wet edge" at all times. Do not stop in the middle of a wall as a dry edge mark may appear. Wet/dry lapping will show as a distinct mark. All work should be arranged to allow completion at a construction joint or a natural division such as a

corner. Cut in around windows and doors as you come to them.

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

Touch dry 20 minutes. Allow 2 hours dry time between coats.

Apply second coat as per first, and if applying by roller "lay off" final coat by brush to obtain required surface profile and to minimize "roller lines". Again, cut in progressively.

THINNING:

If thinning is required, up to 20% Mineral Silicate Primer may be added to the first coat. Second coat add a maximum of 5% Mineral Silicate Primer.

COVERAGES RATES:

Covers approximately 5m² per litre, depending upon porosity, surface texture and wastage rates.

Mineral Silicate Primer covers approximately 10m² per litre, depending upon porosity, surface texture and wastage rates.

WASH UP:

Water.

COMPLEMENTARY PRODUCTS:

Porter's Mineral Silicate Primer is to be applied to all bare surfaces prior to application of Mineral Paint.

Porter's Limeproof Undercoat Sealer (coverage 12m² per litre) is recommended where an undercoat/primer is required when preparing a previously painted substrate for painting with Mineral Paint

To maintain uniformity of finish on surfaces unsuitable for Mineral Paint (e.g. galvanized down pipes, timber trim etc) we recommend Porter's Stone Paint (Fine). Stone Paint (coverage 10m² per litre) is 100% acrylic and can be applied by brush or roller. Stone Paint can be tinted to match your Mineral Paint colour and has a granular, matt surface similar to Mineral Paint.

PACKAGING:

Mineral Paint is available in 1L litre, 10 litre & 15 litre sizes.

Mineral Silicate Primer is available in 1L, 4L, 10L and 15L.

STORAGE:

Store in a cool dry area, protected from frost.

PRECAUTIONS:

Keep out of reach of children. Avoid swallowing. Avoid eye contact. Avoid prolonged skin contact. If accidental contact occurs, rinse immediately with water. Check colour before use.

WARRANTY:

Porter's Mineral Paint has a warranty of 25 years. Porter's Paints Pty Ltd warrants its products to be of the highest quality. The information supplied here is in good faith. There are no implied conditions or warranty in the supply of this product. The manufacturer's guarantee is limited to product replacement only and does not include preparation or application.

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