



## Product Specification

Product Name:

# PORTER'S LIQUID BRONZE AND BRONZE VERDIGRIS

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### PRODUCT DESCRIPTION:

Bronze has long been admired for its beauty and durability, and bronze artefacts unearthed from ancient Mesopotamia have been dated to 3,000BC. Originally used for cups, bowls, implements and weapons, bronze is now used for decorative architectural fittings, monuments and statuary.

The beauty of ancient bronze is now available for broad wall areas, door frames, architectural moldings and other objects with Porter's Liquid Bronze. Add a note of lasting value with the splendor and richness of a verdigris finish.

Dries naturally into a matt mid brown, but the authentically beautiful patina of real bronze is only truly revealed when Liquid Bronze is lightly burnished and treated with Bronze Verdigris.

### LOCATION:

Exterior or interior. Please note that outdoors, over time, untreated Liquid Bronze develops a natural patina that varies from pale brown and deep brown to grey. Liquid Bronze's durability and resistance to corrosion is due to the thin oxidized

layer that forms on the surface that further protects the remaining mass, and as a result, Liquid Bronze will not continue to corrode. We strongly recommend using Porter's ageing solution as a finish effect rather than leaving it to weather naturally.

### SUGGESTED APPLICATIONS:

Can be applied to most suitably prepared plasterboard, plaster, wood, masonry, metal and previously painted surfaces. Perfect for broad wall areas, door frames, window frames, picture frames, architectural moldings, and for architectural sculptures.

### COLOURS:

Liquid Bronze is available in one colour only, a matt mid brown. (The product will accept a small amount of tint if required). Bronze Verdigris creates a patination that is predominantly blue green, but can vary through shades of greens, browns, blues and even lighter areas.

For more artistic users/applications, Liquid Bronze can be slightly tinted to create different tones.

## LIMITATIONS:

When painted onto "high traffic" surfaces such as hand rails, door knobs etc continued touching of the surface will remove the verdigris effect. The verdigris effect can be delicate and will be damaged under such circumstances.

Do not apply in high humidity, below 10°C or above 30°C. Do not apply in areas subject to ponding.

## PREPARATION:

### NEW/UNPAINTED SUBSTRATES:

Substrate should be a clean well-held surface free from loose material, dirt, grease, oil and mould. Dust down before proceeding. On bare surfaces such as new unpainted plasterboard sheeting, render, brick or timber, spot prime all joints and repaired areas with Porter's Limeproof Undercoat Sealer, then apply two coats of same to entire area.

On new unpainted fresh set plaster do not proceed until plaster has thoroughly set and has dried completely. Firstly, apply 1 coat Porter's Mineral Silicate Primer by brush or roller. Touch dry 20 minutes. Allow 2 hours dry time. Then apply by brush, roller or spray 1 coat Porter's Limeproof Undercoat Sealer. Touch dry 2 hours. Allow 6 hours dry time.

On bare metallic surfaces, apply a suitable metallic primer (anti-corrosive), then apply one coat of Porter's Universal Primer. Touch dry 2 hours. Recoat 6 hours. Allow to dry 24 hours. On galvanised iron only Universal Primer is necessary.

On plastic, apply two coats of Porter's Universal Primer. Touch dry 2 hours. Recoat 6 hours. Allow to dry 24 hours.

### PREVIOUSLY PAINTED SUBSTRATES:

Previously painted surfaces with loose, peeling or flaking paint must be made sound by scraping off loose paint. Fill nail holes and cracks with suitable filler, sand and dust off. Spot prime all joints and repaired areas with Porter's Limeproof Undercoat Sealer, then apply one coat to entire area. Touch dry two hours. Allow 6 hours dry time.

## APPLICATION:

Stir Liquid Bronze thoroughly prior to use, and occasionally during use.

Apply a minimum of two\* coats by brush, roller or spray. Touch dry in 30 minutes. Allow minimum 6 hours dry time between coats. Please note that the application method (i.e. brush, roller or spray) can affect the way your Liquid Bronze finish appears upon completion. This is due to the textures that are created by the application tools and some experimentation is advised prior to proceeding with large areas. Although artistic skill is not required to get a great effect with this product, artists will enjoy creating interesting effects and experimenting with application tools and methods.

\* The number of coats applied can vary, (though we recommend a minimum of two), depending upon the extent of the burnishing/polishing planned. Bear in mind, for example, that a gentle hand burnishing with 000 steel wool will barely remove any of the finish, compared to mechanical sanding, which can remove the equivalent to almost a coat of paint.

#### APPLYING BRONZE VERDIGRIS:

Note: Bronze Verdigris contains 1.65g/L of hydrochloric acid, so please always wear rubber gloves and safety goggles.

Bronze Verdigris can be applied 24 hours after the last coat of Liquid Bronze. Lightly apply by brush one or two coats of Porter's Bronze Verdigris. Allow minimum 3 hours dry time between coats. Verdigris appearance will begin to develop within hours and will continue to increase over the next 12 hours. To increase intensity of verdigris effect, up to three coats may be applied.

Please Note: Liquid Bronze treated with Bronze Verdigris is a chemical reaction. Individual results may vary due to film thickness, methods used, time elapsed, ambient temperatures, substrate etc.

#### BURNISHING OR POLISHING THE FINISH:

Burnishing or polishing the finish after the application of the Bronze Verdigris is optional, and will create a subtle change in the final finish, where a slight shine is visible through the verdigris. Best results are achieved if the Liquid Bronze (with or without Bronze Verdigris) is left to dry and harden for 24 hours, as a hardened, cured finish is easier to burnish than one that is still slightly soft. Experimentation on a test panel is highly recommended, as abrading the surface will remove the verdigris finish to reveal the polished bronze. Varying effects will be achieved according to the application tool used to apply the Liquid Bronze, for example, if a roller is used to apply the Liquid Bronze, once burnished, creates a subtle, authentic cast bronze effect. Imagine viewing the surface microscopically, where the burnishing removes and polishes the tops of the "mountains", while the verdigris finish remains untouched in the "valleys". There is no standard method or fixed result when at the

burnishing/polishing stage – be artistic and experimental and create your own unique finish.

Burnishing: Allow finish to dry for a minimum of 24 hours before burnishing or polishing. Always wear a dust mask, safety goggles and gloves. For best results Liquid Bronze should be polished mechanically with a 1000-1500 grade sanding discs.

#### SEALING AFTERWARDS:

If a clear sealer is required, we recommend Porter's Stucco Wax, although it must be noted that this will change and darken the final result. Perhaps do a small sample board first to check the result before sealing your main project. Allow the Bronze Verdigris to react and dry for at least 48 hours prior to sealing. This can be used either internally or externally. If used externally or in high traffic areas, reapply every 6-12 months.

#### COVERAGE RATES:

Liquid Bronze covers approximately 10m<sup>2</sup> per litre, depending upon porosity, surface texture and wastage rates.

Porter's Bronze Verdigris covers approximately 10m<sup>2</sup> per litre.

#### WASH UP:

Water.

## COMPLEMENTARY PRODUCTS:

Porter's Limeproof Undercoat Sealer (coverage 12m<sup>2</sup> per litre) is recommended where an undercoat/primer is required when preparing substrate for painting.

Porter's Universal Primer (coverage 10m<sup>2</sup> per litre) is recommended on metallic surfaces after a suitable metal primer has been applied.

Mineral Silicate Primer (coverage 10m<sup>2</sup> per litre) is recommended for priming new set plaster before undercoating.

## PACKAGING:

Porter's Liquid Bronze is available in 500ml and 1L sizes.

Porter's Bronze Verdigris is available in 500ml.

## STORAGE:

Store in a cool dry area, protected from frost.

## PRECAUTIONS:

Always wear a dust mask, safety goggles and gloves when burnishing or polishing this product.

Keep out of reach of children. Avoid swallowing. Avoid eye contact. Avoid prolonged skin contact. Provide adequate ventilation. If accidental contact occurs, rinse immediately with water.

When applying Bronze Verdigris wear rubber gloves and safety goggles. Keep out of reach of

children. Avoid swallowing. Avoid eye contact. Avoid prolonged skin contact. Provide adequate ventilation. If accidental contact occurs, rinse immediately with water.

## MANUFACTURER'S/DISTRIBUTOR'S DETAILS:

Porter's Paints  
288 Coward St  
Mascot NSW 2020  
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