

## NATURALLY BREATHABLE, ENVIRONMENTALLY FRIENDLY MINERAL PAINT FOR ALL MASONRY SURFACES

### PRODUCT DESCRIPTION

Earles Masonry Paint is a premium weather-resistant mineral paint. Supplied as a powder Earles Masonry Paint is mixed with water to form an easily applied coating.

Environmentally sustainable and naturally breathable, Earles Masonry Paint is made from a carefully balanced composition of natural minerals with no added plastics, polymers or harmful inorganic chemicals.

Earles Masonry Paint cures and hydrates to form a strong, permanent bond to the substrate, giving a tough and vapour permeable finish. Highly breathable with an SD Value of less than 0.01. Any excess moisture trapped within the walls is allowed to naturally pass through the paint and escape. This means Earles Masonry Paint will not peel, flake or blister.

Earles Masonry Paint is safe for users and the environment, with zero Organic Compounds (VOC's), tested according to IS 15489: 2004. It also contains no heavy metals or hazardous substances such as formaldehyde, phenolic compounds and benzene.

Earles Masonry Paint has a high PH which is resistant to algae and fungal attack, colours are permanent and UV resistant.

Compatible with a wide range of materials, including lime renders and mortars, natural stone, cobb, cement and cement lime renders, concrete blocks, brickwork, pre-cast and in-situ concrete. Earles Masonry Paint can also be used on GRC, plasterboards and cement fibre boards.

### PRODUCT FEATURES

- High vapour permeability/breathability.
- SD Value of less than 0.01
- Zero polymer content.
- Suitable for a wide range of surfaces.
- Can be applied over existing masonry paint
- Can be used internally as well as externally
- Resists frost and water related damage.
- Can fill rough and open textures.
- Easy mixing and application.
- UV Resistant.
- Ideal for coastal and marine environments.
- Safe to use, non-toxic and solvent free with no added VOC's

### TECHNICAL DATA

APPEARANCE	OBSERVATION
Form	Fine Powder
Colour	White/Pigmented
Smell	Citrus

MATERIAL PROPERTIES	VALUE
Hydration/curing time	Determined at 28 days (Typical from tests)
Water Vapour Permeability	High (>150) - SD Value <0.01
Cube strength (28 days)	35.5 Mpa (Nmm <sup>2</sup> )
Pull off strength on 25 N/mm <sup>2</sup> concrete substrate	2.3 MPa (Nmm <sup>2</sup> ) (concrete failure)
Hardness (Mohs Scale @ 28days)	5
Sorptivity	0.12 mm/min <sup>0.5</sup>

PHYSICAL DATA	VALUE
Bulk Density (Powder)	1295 kg/m <sup>3</sup>
pH (1:1 powder:water)	10-11
Melting Point	Not Applicable
Boiling point	>1000°C
Decomposition Temperature	Not Applicable
Flash Point	Not Applicable
Explosive Properties	Non Explosive

### INSTRUCTIONS FOR GENERAL USE

#### SURFACE PREPARATION

Ensure surface is free of all weak and loose deposits and contamination such as dust, dirt, moss, lichen, grease, oil, sealer and anything that could affect the coating application.

**Note:** For application onto existing paint, where the previous paint has failed leaving areas of bare masonry, additional preparation is required.

Apply two coats of Earles Masonry Paint onto the bare masonry areas before painting the entire surface with a further two coats of the paint.

#### PRIMER COAT

Earles Masonry Paint Surface Primer is recommended when the paint is to be applied over any polymer based coatings, glazed bricks, old unpainted renders and pebble dash or other loose and friable surfaces.

## INSTRUCTIONS FOR GENERAL USE (CONTINUED)

### MIXING THE PAINT

Mix the paint by volume using equal quantities of water and powder to mix the paint, for example one cup of water to one cup of powder.

Gradually add the paint powder to the clean water whilst thoroughly mixing with a low speed powered mixing paddle.

Avoid adding additional water to powder.

Continue mixing ensuring all powder had been thoroughly incorporated. If a thicker mix is desired add more powder at this stage and mix thoroughly. Let the mix stand for 2 minutes and then remix for 30 seconds.

Once mixed, Earles Masonry Paint should be used within 2 hours. During use some settlement may occur. Stir if required, remembering that the paint will naturally thicken over time. Do not add more water to the mix as this may affect the curing process.

### CONSUMPTION

Consumption will depend on the porosity/texture of the surface and the required finishing application method. The following table is illustrative of the application of one coat of Earles Masonry Paint using 1KG, 5KG and 10KG of powder on a smooth rendered surface.

POWDER	WATER	MIX	COVERAGE
1KG (0.7ltr)	0.7 Ltr (700ml)	1.4 litres	4-6m <sup>2</sup>
5KG (3.5ltr)	3.5ltr (3500ml)	7 Litres	20-30m <sup>2</sup>
10KG (7ltr)	7ltr (7000ml)	14 Litres	40-60m <sup>2</sup>

### PAINT APPLICATION

Apply a minimum of 2 coats of the paint.

Apply first coat of paint evenly to the surface using a brush, an HVLP or compressor based spray system. Do not use an airless spray system. Spray application will give the smoothest finish and the most consistent thickness of paint.

If brush application is preferred it is essential to ensure that an equal thickness of paint is applied evenly over the whole surface.

Allow a minimum of 6-8 hours between coats under normal circumstances. A longer curing time may be necessary in cold and damp conditions.

Apply second coat of the paint and allow to fully cure.

### PROCEDURE FOR HOT WEATHER AND POROUS SURFACES

**Additional information for hot weather or application onto porous surfaces such as lime render and cobb.**

Prepare the Earles Masonry Paint mix ready for use. Thoroughly saturate the surface with water and immediately commence painting. If rapid drying is apparent after 1 hour, mist the coated surface with water, this will aid the curing process. Repeat this process for the second coat of paint.

For application advice email [sales@npc-ltd.co.uk](mailto:sales@npc-ltd.co.uk) or call us on 01665 494034.

### CURING PROCESS

Earles Masonry Paint is unique, it cures by hydration and during this process the paint may appear chalky or slightly transparent. The paint will oxidise and cure over 7 days, resulting in a super matt, dust free finish. After this initial cure the paint will continue to strengthen over time.

**Note:** After application on mixed substrates such as existing paints some initial colour variation may be visible. This is completely natural and will even out as the paint cures and hydrates. This effect can also be apparent when the paint has been applied to surfaces which have a high moisture content.

### CLEANING

Clean all equipment with fresh water immediately after use.

### DISPOSAL

Earles Masonry Paint is inert once cured. It is environmentally friendly and can be safely disposed of or recycled.

### CHEMICAL PROPERTIES

Blended White Portland Cement, Lime and other natural minerals and pigments.

### PACKAGING

Earles Masonry Paint is supplied as a powder in 5kg and 10kg re-sealable buckets. Earles Surface Primer is supplied as a liquid in 5 Litre containers.

### STORAGE & SHELF LIFE

Store in dry location in the original bag and airtight bucket at 5°C-30°C temperature.

### PERFORMANCE

When correctly applied on an appropriate, defect free surface, the coating can be expected to last in excess of 20 years.

### HEALTH & SAFETY

Earles Masonry Paint is a non-hazardous material for which safety measures are as for cement. Earles Masonry Paint is slightly alkaline when freshly mixed. A material Safety Data Sheet is available on request.

<b>RESPIRATORY PROTECTION:</b>	Wear a dust mask.
<b>HAND PROTECTION:</b>	Wear protective gloves.
<b>SKIN PROTECTION:</b>	Cover arms and legs.
<b>EYE PROTECTION:</b>	Wear suitable safety glasses
<b>IF SWALLOWED:</b>	Do not induce vomiting. Seek medical advice if ingested or if an allergic reaction occurs.

### KEEP OUT OF THE REACH OF CHILDREN & ANIMALS

### PRODUCT ASSISTANCE

Contact Northern Paints and Coatings Ltd:

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Important: The content of this documentation is based on our experience of the product. The company guarantees the quality of its products, but expressly declines any liability in the event of failure by the user to comply with the recommendations and conditions of use of said products, notably but not exclusively in the event of incorrect application including non-use of the company's 'Approved Application Tools', application by non-competent personnel, use of products not compatible with the company's products or bad weather conditions. For further information, refer to the material safety data sheet.



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