

Technical Data Sheet 301

Perlata PLS / PLG

1 Product Description

Perlata is a water-based, decorative wall coating specially formulated with pearlescent pigments to create an elegant finish with a subtle surface shimmer. Perlata is available in a wide range of colours which are suitable for both modern and classical interiors.

2 Properties

- Quick and easy to apply.
- Economically priced to appeal to a variety of design requirements.
- Supplied ready for use.
- Can be tinted to a wide range of colours using a silver or gold base.
- Perlata range also includes a preparative base coat, BaseColor Matt and a protective top coat, Clearseal Gloss.
- Formulated to prevent mould, mildew and bacterial growth.
- Low VOCs and low odour.
- Coverage rate: approximately 10-14 m²/lt/coat
- One 5 lt unit will cover approximately 30 m² (300 ft²) in 2 coats.
- Drying time 3-4 hours.

3 Test Data

3.1 Scrub Resistance

The Perlata system (BaseColor Matt, Perlata PLS, Clearseal Gloss) was tested for wet scrub resistance according to ASTM D2486 "Standard Test Methods for Scrub Resistance of Wall Paints".

Test Method	Perlata	Perlata + Clearseal Gloss
ASTM D2486	1075 cycles	1925 cycles

Testing was carried out by an accredited testing laboratory.

3.2 Stain Resistance

The Perlata system (BaseColor Matt, Perlata PLS, Clearseal Gloss) was tested for Stain resistance according to ASTM D1308 "Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes". Test carried out according to 15 minute open spot test.

Test Liquid	Perlata	Perlata + Clearseal Gloss
Coffee	4	4
Red Wine	1	2
Vinegar	5	5
Tomato Sauce	5	5
Mustard	2	4
Strawberry Preserve	5	5

1 = Poor 5 = Excellent

3.3 VOC Testing

A sample of Perlata PLS was tested for VOC following procedures outlined in ASTM D3960 "Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings" and ISO 11890-2 "Paints and varnishes. Determination of volatile organic compound (VOC) content."

Test Method	Result	Comments
ASTM D3960	209 g/lt	US EPA requirement (<250g/lt)
ISO 11890-2	<100g/lt	EU limit for this product (Cat A/I): 300g/l (2007) / 200g/l (2010).

3.4 Anti-Microbial Preservation

3.4.1 Mold/Mildew Resistance

Samples were tested in accordance with;

ASTM D 3273 – "Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber".

ASTM D 3274 – "Standard Test Method for Evaluating Degree of Surface Disfigurement of Paint Films by Microbial (Fungal or Algal) Growth or Soil and Dirt Accumulation".

Plaster	Finish	Post Treatment	Front of Panel*	Back of Panel*
Perlata	PLS	-	10/10/10	10/10/10

*Rating system – 1 is very poor, 10 is no growth

Testing was carried out by an Accredited American testing laboratory.

3.4.2 Fungal, Algal and Bacterial Evaluation

Test Method	Result
Anti-Fungal Activity	No visible growth
Anti-Algal Activity	No visible growth
Anti-Bacterial - JIS Z 2801 E Coli MRSA Salmonella	No bacteria survived No bacteria survived No bacteria survived

3.5 Fire Test Results

Test Method	Result	Comments
ASTM E84	Class A	Perlata system tested (BaseColor - 1 coat, Perlata - 2 coats, Clearseal Gloss - 1 coat)
BS476 Part 6&7	Class 0	Perlata system tested (BaseColor 1 coat, Perlata 2 coats)

4 Limitations

For interior use only.

5 Preparations

5.1 New Surfaces

- Ensure all surfaces are sound, clean and suitably dry.
- Dense or highly polished surfaces should be coated with an appropriate primer to promote effective adhesion.
- Freshly plastered surfaces should be coated with a suitable sealer/consolidator eg. Dulux Plaster Sealer.
- Porous surfaces should be primed with a mist coat of BaseColor Matt thinned with up to 20% clean water.
- Leave to dry.

5.2 Previously decorated surfaces

- Ensure all surfaces are sound, clean and suitably dry.
- Remove any loose or flaking material back to a sound firm edge.
- Treat any organic growth with a fungicidal wash.
- Fill any holes, cracks or surface defects.
- Surfaces that exhibit high sheen levels should be wet abraded to provide a key.

- Wash down sound paintwork with warm water and an appropriate cleaning agent to remove any contaminants.
- Rinse surfaces with clean water to remove any residues.
- Spot prime any bare or filled areas with a mist coat of BaseColor Matt or an appropriate primer as necessary.
- Leave to dry.

6 Tools Required

To apply Perlata you will require the following tools and materials:

- ArmourColor BaseColor Matt
- ArmourColor Perlata
- 9" Paint roller with a short pile roller head
- Roller tray
- Large Perlata Patterning Tool
- Small Perlata Patterning Tool
- ArmourColor Smoothing Blade *
- Small paint brush
- 2" Masking tape

7 Application Instructions

Surfaces to receive Perlata must be prepared as ready for painting.

These instructions are offered as a guide only. Always try small areas first before attempting large walls. A demonstration DVD and training courses, which would offer greater insight, are available.

- Stir product thoroughly before use.
- Apply 1 - 2 coats of BaseColor Matt using a good quality short pile roller. Allow 4 – 8 hours drying time before overcoating.
- De-nib with fine abrasive paper.

Mask up all adjoining surfaces before applying Perlata.

- Apply the first coat of Perlata to the surface with a short pile roller. Work the roller both vertically and horizontally to achieve a consistent fine stipple (consistent thickness). Work in 1-2 m² sections at a time. For a smoother overall finish, lightly run the Smoothing Blade * across the surface to remove any stipple.
- At the edges (architrave, picture rail, skirting etc.) or internal corners, apply the Perlata with a paint brush and roll up to the edge. Again the Smoothing Blade * can be used to remove any stipple or brush marks. As an alternative, dip the edge of the

- Smoothing Blade * into the Perlata in the roller tray and push the blade directly into the corner and
- spread the material out to achieve a smooth, even layer.
 - Leave to dry for 3-4 hours under normal drying conditions and then de-nib the surface with a fine abrasive paper.
 - Apply a final layer of the Perlata to the surface with a short pile roller. To achieve the best results it is important that the final layer is as thin as possible. Once you have applied the Perlata to an area of 1-2 m², press the flat face of the large Perlata Patterning Tool directly onto the surface and work in a circular motion.
 - Continue across the wall in a systematic way.
 - For small areas with less access the Perlata can be brushed in and finished as above, using a small Perlata Patterning Tool.

Additional notes:

For a 'silky' feeling surface, leave the wall to dry for about an hour, and blade across the surface with the Smoothing Blade. *

Perlata can be left unsealed, but where improved abrasion resistance is required it is recommended that a single coat of Clearseal Gloss be uniformly roller applied across the entire wall.

****Optional Finish***

8 Health and Safety

Perlata is a non-toxic water-based product. Ensure good ventilation during application and drying. Avoid contact with skin and eyes. Keep out of reach of children.

Please refer to the Safety Data Sheet for further information.

9 Storage

Store in good dry conditions between 5 – 25°C. Protect from frost. Protect from sunlight and sources of direct heat. Keep container sealed when not in use.

Shelf life of Perlata in an unopened container under correct storage condition is 12 months from date of manufacture.

10 Care & Maintenance

10.1 Cleaning Surface Dirt and Grime

Mix a small quantity of liquid detergent or soap into a bucket of clean water. Work from top to bottom of dirty area using a well-soaked soft cloth, sponge, very soft bristle brush or low pressure garden mist sprayer. Do

not use scouring pads, industrial strength cleaners or solvents, since these may damage the surface finish. Do not allow cleaning solution to dry on the wall. Where possible blot the wall dry with an absorbent towel or sponge.

ArmourColor decorative coatings will be unaffected by mild detergents but may soften slightly with prolonged cleaning.

It is recommended that a small area is test cleaned to check for a satisfactory result.

10.2 Damage and Repairs

ArmourColor decorative coatings are tough and durable coatings, but can be damaged. In the event of damage please contact the installer for technical assistance and instructions.

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