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Product Data Sheet PDS018: Perlata

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, gold or bronze base
- the Perlata system includes a preparative basecoat, BaseColor Matt and a protective top coat, Clearseal Gloss
- can be used in bathrooms and swimming pool areas. Perlata is formulated to prevent mould, mildew and bacterial growth
- low VOCs and low odour
- coverage rate: approximately 6m²/lt for a 2 coat system. One 5 litre unit will cover approximately 30m² (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	1,075 cycles	1,925 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. **1 = Poor 5 = Excellent**

Test Liquid	Perlata	Perlata + Clearseal Gloss
Coffee	4	4
Red wine	1	2
Vinegar	5	5
Tomato sauce	5	5
Mustard	2	4

3.3 VOC Testing

3.3.1 VOC Content Testing

A sample of Perlata PLS was tested for VOC following procedures outlined in ASTM D3960 "Standard Practise for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings", ISO 11890-2 "Paints and varnishes. Determination of volatile organic compound (VOC) content" and ASTM D6886 – Standard test method for speciation of the VOCs in low VOC content waterborne air-dry coatings by GC. Tests were carried out by an accredited American or European testing laboratory.

Test Method	Result	Comments
ASTM D3960	209g/l	US EPA requirement (<250g/l)
ISO 11890-2	40g/l	EU limit for this product (Decopaint): 200g/l (2010)
ASTM D6886	74.4g/l	

3.3.2 VOC Emissions Testing

A sample of Armourcolor Perlata System was tested for indoor air quality following the requirements of CDPH/EHLB/Standard Method by an accredited American laboratory.

Environment	Product Usage	Product Surface Area	Room Volume	Ventilation Rate (ACH)	Product Compliance?
Classroom	Wall	94.6 m ²	231 m ³	0.82	Yes
Office	Wall	33.4 m ²	30.6 m ³	0.68	Yes
Residential	Wall	562 m ²	547 m ³	0.23	Yes

3.4 Anti Microbial Preservation

3.4.1 Mould/Mildew Resistance

Samples were tested in accordance with:

ASTM D 3273 – "Standard Test Method for Resistance to Growth of Mould 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".

Coating	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	No bacteria survived
E-Coli	
MRSA	
Salmonella	

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)
BS 476 Part 6&7	Class 0	Perlata system tested (BaseColor 1 coat, Perlata 2 coats)

3.6 Formaldehyde Emissions

A sample of Perlata PLS was tested for emission of formaldehyde according to JIS A 1901: 2003 "Determination of the emission of volatile organic compounds and aldehydes for building products - Small chamber method".

The preparation of test specimens and samplings were carried out according to JIS A 1902-3: 2006 "Determination of the emission of volatile organic compounds and aldehydes for building products - Sampling, preparation of test specimen and testing condition - Part 3: Paints and coating material".

Duplicate air samples were collected at each sampling day.

Sample	Formaldehyde after 7 days		
	Conc $\mu\text{g}/\text{m}^3$	Emissions Rate $\mu\text{g}/\text{m}^2/\text{h}$	Mean Value Emission Rate $\mu\text{g}/\text{m}^2/\text{h}$
Perlata PLS/PLG	12	3	2
Perlata PLS/PLG	10	2	2

Classification (Building Standards Law): Less than 5 $\mu\text{g}/\text{m}^2\text{h}$ means that Perlata achieves F☆☆☆☆ (JIS symbols), meaning there is no area limit of building materials.

Testing was carried out by an accredited Testing Laboratory.

4 Limitations

For interior use only.

5 Preparation

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 Application Instructions

- apply BaseColor Matt in one or two coats using a short pile roller or by spray application. Allow 4 - 8 hours drying time before overcoating
- apply the first coat of Perlata to the surface with a short pile roller. If a smoother overall finish is required use a smoothing blade to remove stipple
- allow to dry for 3 - 4 hours, de-nib and then apply final coat of Perlata and pattern with patterning tool or small trowel to achieve desired finish
- 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

7 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

8 Storage

Store in good dry conditions between 5°C and 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 24 months from date of manufacture.

9 Care & Maintenance

9.1 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. Perlata 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.

9.2 Damage and Repairs

Perlata is tough and durable but can be damaged. In the event of damage please contact the installer for technical assistance and instructions.