

Product Data Sheet 3

Armuralia P50

1 Product Description

Armuralia is a ready mixed marble stucco paste that is trowel applied to create smooth or finely textured finishes which resemble polished stone in their appearance, hardness and feel to the touch.

Armuralia is made from a combination of ultra-fine lime putty and crushed white marble that has been carefully graded to impart outstanding workability and final trowel polish. Armuralia is an almost entirely natural mineral material and is exceptionally hard due to the quality and fineness of the slaked lime used in its manufacture.

Armuralia may be tinted to almost any colour of the spectrum.

2 Properties

Provides a hard and durable polished surface for interior and exterior use* (limitations apply)

Natural mineral material, environmentally friendly

Wide colour range for interior use

Good workability in a wide range of site conditions

Good water vapour permeability

Non-newtonian thixotropic paste Viscosity 85000cP +/- 20000cP

Specific density 1.8 kg/L +/- 0.1 kg/L

Dry solids content 76% +/- 2%

3 Health and Safety

Armuralia is a water-based product that is non-combustible and has very low VOC emissions. As supplied in the wet state, Armuralia is alkaline and therefore prolonged skin contact during application must be avoided as this could cause dermatitis to sensitive skin.

Wear eye protection, and if contact with the skin occurs, wash immediately with soap and water.

4 Suitable Substrates

Armourcoat polished plaster can be applied to any backing that is firm and true and will not crack, however in our experience the best substrates to work onto are taped and jointed plasterboard and freshly plastered walls that are fully dry.

Never attempt to apply Armuralia over wallpaper or lining paper and great care should be taken on surfaces that are already decorated. Armourcoat plaster can be applied to existing painted surfaces provided the paint is well adhered to the wall.

A flat or true substrate is vital to achieve high quality results as any bumps or imperfections may show up in the finished surface.

Whilst Armourcoat will bond adequately to MDF, great care should be taken when using it as a substrate as it will tend to crack along any joints and the MDF may also swell and warp.

Armourcoat have full specification sheets for all types of substrate.

5 Applying Armuralia

To achieve a good application of Armuralia it is crucial to have a surface with a good mechanical key, and one that will provide a certain amount of suction. Uneven suction across a wall can affect the final pattern, with some parts of the wall drying and polishing up much faster than others. We therefore recommend the use of Armourcoat K40 Primer followed by a coat of Armuralia or Fine Keycoat:

Apply K40 primer by roller or brush and leave to dry.

Apply a fine layer of the Armuralia or Fine Keycoat to the wall and work over the surface to remove any obvious lines or scratches. Leave to dry.

Apply a consistent layer of Armuralia working it into the undercoat, and pass the trowel over the surface to remove any obvious lines.

Leave this layer to dry out a little, and when it is just starting to show lighter patches, work a fine layer of the material into the first coat working progressively across the wall.

Trowel the surface at 10-minute intervals until the correct level of polish is achieved.

The final surface will have a highly polished surface with subtle movement and variation across the surface. Armuralia is a natural mineral material and if left in its natural state will allow the substrate to breathe.

If protection against dirt and spillage is required, it can be waxed with Armourcoat White Wax or Aquawax. If you choose to wax the finish we recommend that it is first left for several days to dry and cure.

The longer it is left exposed to the air, the greater the level of carbonation and therefore consequent hardness.

6 Test Data

6.1 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* |
|---------|--------|----------------|-----------------|----------------|
| P50 | - | - | 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.

6.2 Shore D Hardness

A test panel of Armuralia AM-N3198 was tested for hardness using an Elcometer 3120 Shore Durometer D. An average of 5 readings was taken. Tests were carried out at 23°C and 35% RH.

| | |
|------------------|----------|
| Sample | AM-N3198 |
| Shore D Hardness | 78 |

6.3 VOC Testing

A sample of Armourcoat Armuralia was tested for VOC following procedures outlined in ASTM D3960 “Standard Practise for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings.”

| Sample | VOC (grams/litre) | VOC (Lbs/Gal) |
|---------------|-------------------|---------------|
| Armuralia P50 | 22 | 0.2 |

Testing was carried out by an Accredited American testing laboratory.

7 Coverage Rates

The coverage rate of Armuralia will vary depending upon the application procedure and the number of coats applied.

Typically coverage will vary from 1.6 – 2.0 kg/m² applied in 2 coats.

8 Storage

Store in 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 Armuralia in unopened container under correct storage conditions is 12 months from date of manufacture.

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