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Product Data Sheet PDS042: Polished Plaster P500

1 Product description

Armural P500 is a ready mixed marble stucco (marmorino) paste that is trowel applied to create either smooth or textured finishes which resemble natural stone in their appearance, hardness and feel to the touch.

P500 is made from a combination of slaked lime, micronised marble powder and special additives, formulated to give outstanding workability and surface polish. P500 is an almost entirely natural mineral material and is hard due to the quality and fineness of the slaked lime and marble used in its manufacture.

P500 can be tinted to create a large range of colours

2 Properties

- provides a hard and durable 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.
- up to 40% recycled content.
- non-Newtonian thixotropic paste
- viscosity 75000cP +/- 20000cP
- specific density 1.75 kg/L +/- 0.1 kg/L
- dry solids content 74.0% +/- 2.0%

3 Health and Safety

Armural P500 is a water-based product that is non-combustible and has low VOC emissions. As supplied in the wet state, P500 is highly alkaline and therefore prolonged skin contact during application must be avoided as this can lead to skin sensitivity or dermatitis. 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 P500 over wallpaper or lining paper and great care should be taken on surfaces that are already decorated. Armourcoat Polished 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 P500 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 suitable substrate available on our website

5 Application instructions

- to achieve a good application of P500 it is crucial to have a surface with a good mechanical key, and one that will provide a certain amount of suction. This is achieved by applying a first coat of P500 and allowing it to dry.
- Fine Keycoat is a suitable alternative and will also provide a perfectly suitable preparatory coat but will require the use of a

mechanical mixing drill on site.

- apply Eco Primer by roller or brush and leave to dry. Apply a fine layer of the P500 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 P500 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.
- P500 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 sealed with Sealer 56 or waxed with Armourcoat Eco Wax. 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 VOC Testing

A sample of Armourcoat Armural was tested for VOC content following procedures outlined in ISO 11890-2 "Paints and varnishes. Determination of volatile organic compound (VOC) content".

Sample	VOC (grams/litre)	VOC (lbs/gal)
Armural	<1	<0.01

6.2 European Fire Test Results

Independent tests were carried out in the UK for classification of reaction to fire performance in accordance with EN13501-1:2007+A1: 2009.

Reaction to fire classification:

A2 - s1, d0

Testing was carried out by an Accredited European testing laboratory

7 Coverage rates

Armural P500 is supplied in 24 kg units. The coverage rates will vary depending upon the application procedure.

Typical coverage is around 1.6 – 2.0 kg/m². Each 24kg unit will cover approximately 12 – 15m² (130 – 160ft²).

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 P500 in an unopened container under correct storage conditions is 24 months from date of manufacture.

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