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Product Data Sheet PDS041: Armourcoat Istria P350

Finish: Istria

1 Product Description

Istria P350 is a ready mixed superfine marble stucco paste that is trowel applied in a series of fine layers to create a matt finish with ingrained surface movement.

Istria P350 is made from a combination of slaked lime, micronised marble powder and special additives, formulated to give outstanding workability and surface polish. Istria P350 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.

Istria P350 can be tinted to create a large range of colours.

2 Properties

- Provides a hard and durable surface for interior use.
- Natural mineral material & environmentally friendly.
- 72 colour standard range
- Good workability in a wide range of site conditions.
- Good water vapour permeability.
- Greater than 40% recycled content.
- Non-Newtonian thixotropic paste
- Viscosity 70000cP +/- 20000cP
- Specific density 1.7 kg/l +/- 0.1 kg/l
- Dry solids content 70% +/- 2.0%

3 Health and Safety

Istria P350 is a water-based product that is non-combustible and has low VOC emissions. As supplied in the wet state, Istria P350 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 Istria P350 over wallpaper or lining paper and great care should be taken on surfaces that are already decorated. Istria P350 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 Istria P350 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

- The Istria P350 finish is applied to a thickness of no more than 0.5 – 0.7mm and when completed will have a matt finish with distinct surface pattern.
- Any undulations or imperfections in the substrate will be mirrored in the final finish, and therefore great care must be taken in preparation prior to the final application. For substrates that are not sufficiently flat to proceed directly, we recommend the application of two layers of K149 Fine Keycoat trowelled down to a smooth surface before the application of the paste.
- Apply Armourcoat Primer to the wall by brush or roller. Leave to dry. On porous surfaces the primer will be sufficiently dry within 2-4 hours. However on sealed surfaces such as paint we recommend the primer is left to dry overnight. Once the primer is dry, apply a consistent layer of the P350 paste over the surface and leave to dry until the material becomes firm (between 30-90 minutes depending on drying conditions). Try to minimise any trowel lines. This first layer can be applied in large sweeps and then finished in a random fanning effect.
- Taking a small amount of the material onto a Polished Plaster trowel, apply a patch to the surface, and then pass over once again to remove the material. Apply a series of consistent patches in this way, which are overlapping, to an area of 1-2 m² (10-20ft²). As the patches dry out, scrape lightly across the surface with a clean blade to remove any lines or small dried lumps of material.
- If you are working alone, after every 2-3m² (20-30ft²) clean the trowel and drop back to trowel down the surface. If you are working in a pair, the second person should follow closely behind, closing down the surface with a clean blade in a series of small random strokes. Leave to dry.
- P350 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 protected with Armourcoat Eco Wax or Sealer 56.
- If you choose to seal the finish we recommend that the surface is left for several days to dry and cure.
- The longer P350 is left exposed to the air, the greater the level of carbonation and consequent surface hardness.
- Any wax or sealer applied is likely to change the surface appearance of the Istria P350 finish.

6 Test Data

6.1 VOC Testing

A sample of Armourcoat Istria P350 was tested for VOC following procedures outlines in ASTM D6886. The 250 degree C limit for ISO 11890 was estimated by analysis of pentadecane.

Sample	VOC (grams/litre)	VOC (lbs/gal)
Istria P350	74	0.6

Testing was carried out by an accredited American testing laboratory.

6.2 Fire Testing

6.2.1 British Fire Test Results

BS 476: Part 6: 1989+A1: 2009

Fire propagation index,1	0.7
Subindex,i1	0.2
Subindex,i2	0.3
Subindex,i3	0.2

BS476: Part7: 1997 Class 1 surface spread of flame.

Armourcoat P350 Istria complies with requirements for CLASS 0, as defined in paragraph A13(b) of Approved Document B, 'Fire Safety', to the Building Regulations 2000.

6.2.2 American Fire Test Results

Test carried out in accordance with the procedure outlined in ASTM E84, "Standard Test Method for Surface Burning Characteristics of Building Materials"

Flame Spread Index	5
Smoke Spread Index	0
Flame Spread Classification	1

6.3 Shore D Hardness

A test panel of Armourcoat Istria IST 8016 on 6mm MDF was tested for hardness using an Sauter HBD100-0 Shore Durometer D. An average of 5 readings was taken. Tests were carried out at 23C and 35% RH.

Sample	Armourcoat Istria IST 8016
Shore D Hardness	68

7 Coverage Rates

Istria P350 is supplied in 24 kg units. The coverage rate will vary depending upon the application procedure and the number of coats applied.

Coverage will vary from 0.7 - 1.0 kg/m²

Each 24kg unit will cover approximately 25 – 35m² (270 -370ft²).

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 Istria P350 in an unopened container under correct storage conditions is 24 months from date of manufacture.

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