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Product Data Sheet PDS040: Polished Plaster P70

Finish: Spatulata

1 Product Description

Spatulata P70 is a ready mixed superfine marble stucco paste that is trowel applied in a series of fine layers to create a highly polished decorative surface.

Spatulata P70 is made from a combination of slaked lime, micronised marble powder and special additives, formulated to give outstanding workability and surface polish. Spatulata P70 is made from almost entirely natural mineral materials and is hard due to the quality and fineness of the slaked lime and marble used in its manufacture. Spatulata P70 can be tinted to create a large range of colours.

2 Properties

- Provides a hard and durable surface for interior and exterior use (please refer to SSS10)
- Natural mineral material and environmentally friendly
- Health and Environmental Product Declarations available online and on demand
- Wide colour range for interior use
- Good workability in a wide range of site conditions
- Good water vapour permeability
- Excellent fire resistance (EN13501 - A2 - s1, d0)
- Non-Newtonian thixotropic paste
- Viscosity 80000cP +/- 20000cP
- Specific density 1.6 kg/l +/- 0.1 kg/l
- Dry solids content 65.5% +/- 2.0%

3 Health and Safety

Spatulata P70 is a water-based product that is non-combustible and has low VOC Content and emissions. As supplied in the wet state, Spatulata P70 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

Spatulata P70 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 Spatulata P70 over wallpaper or lining paper and great care should be taken on surfaces that are already decorated. Spatulata P70 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 Spatulata P70 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 Spatulata P70 finish is applied to a thickness of no more than 0.5 – 0.7mm and when finished will have a highly polished and glossy surface.
- 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 K40 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 Spatulata P70 paste over the surface and leave to dry. Try to minimise any trowel lines. In warm conditions the layer of paste may be visually dry within an hour, at which point you can apply a second layer of paste to achieve a flat smooth and consistent surface. In cold or damp conditions the drying process may take up to 4-6 hours or even longer.
- Sand off any minor lines or blemishes with 320 grit sandpaper and wipe the surface to remove any dust. (When applying dark colours, try to keep any sanding to a minimum as the dust can become ingrained into adjoining surfaces and is difficult to remove).
- Taking a small amount of the material onto the small trowel, apply as 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 not quite overlapping, to an area of 1-2 m². Pass over the same area once again filling in the spaces between the previous patches. As the patches dry out, scrape lightly across the surface with a clean blade to remove any lines or small dried lumps of material and then work a final tight coat progressively over the entire surface.
- If you are working alone, after every 2-3 m² clean the trowel and drop back to trowel and polish the surface. If you are working in a pair, the second person should follow closely behind polishing the surface with a clean blade in a series of small random strokes.
- If there are areas that remain darker and will not polish up it will be due to excess moisture. Leave for 10-15 minutes and polish again. Leave to dry. Do not apply Wax for at least 2-3 days.
- Spatulata P70 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, Armourcoat Ecowax or Aquawax. See relevant product data sheets.
- If you choose to wax the finish we recommend that the surface is left for several days to dry and cure.
- The longer Spatulata P70 is left exposed to the air, the greater the level of carbonation and consequent surface hardness.

6 Test Data

Tests were carried out on samples of Spatulata which had been treated with Armourcoat White Wax as per application instructions.

6.1 Scrub Resistance

The following performance test was performed by an American laboratory and consequently, the results are quoted to American Standard Modified ASTM D 2486 – 79.

10 grams of scrub medium and 5 grams of water were applied to the brush. The test was halted after 10,000 cycles.

After 10,000 cycles, the Spatulata had not worn through to the undercoat.

The lab considers that for a wall coating, ARMOURCOAT Polished Plaster is exceptionally hard.

6.2 Impact Test

Samples were tested using the Gardner Impact Resistance Test in accordance with ASTM D 2794. The test procedure utilised a 4lb weight in a 36" guide tube with a 0.5" diameter hemispherical indenter.

Sample	
Forward Impact	2 inch per pound

Please note that the material is very hard and failure is usually due to the deformation of the substrate which in this case was a medium density particle board.

6.3 Volatile Organic Compound (VOC) Testing

6.3.1 VOC Content

A sample of Armourcoat Spatulata was tested for VOC following procedures outlines in ASTM D2369 (Gravimetric Test) - Weight loss over 1 hour at 110C.

Test Method	VOC (grams/litre)	VOC (Lbs/Gal)	Comments
ASTM D2369	<1	<1	SCAQMD Rule 1113 Limit: 50 g/L, LEED v4.1 (VOC Content)

6.3.2 VOC Emissions

The regulations or protocols described below are accredited on line with EN ISO/IEC 17025 by DANAK (no. 522). This accreditation is valid worldwide due to mutual approvals of the national accreditation bodies (ILAC/IAF, see also www.eurofins.com/galten.aspx#accreditation).

Regulation or Protocol	Conclusion	Version of Regulation or Protocol
BREEAM International	Basic Level	BREEAM International New Construction v2.0 (2016)
French VOC Regulation	A+	Decree of March 2011 (DEVL1101903D) and Arrêté of April 2011 (DEVL1104875A) modified in February 2012 (DEVL1133129A)
French CMR components	Pass	Regulation of April and May 2009 (DEVP0908633A and DEVP0910046A)
Italian CAM Edilizia	Pass	Decree 11 October 2017 (GU n.259 del 6-11-2017)
Blue Angel (DE-UZ 113)	Pass	DE-UZ 113 for "Low-Emission Floor Covering Adhesives and other Installation Materials" (Version January 2019)

Testing was carried out by Eurofins - Product Testing, Denmark.

6.4 American Fire Test Results

Test carried out in accordance with the procedure outlined in ASTM E84 – 98, "Standard Test Method for Surface Burning Characteristics of Building Materials"

Fire Spread Index	5
Smoke Spread Index	10
Flame Spread Classification	Class 1

6.5 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

7 Coverage Rates

Spatulata P70 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 0.8 - 1.0 kg/m²

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 Spatulata P70 in an unopened container under correct storage conditions is 24 months from date of manufacture.

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