



POLISHED PLASTER

Technical Data Sheet (TDS)

1. Introduction

Arrcoat Polished Plaster is a natural mineral material composed of hydrated, hydroxyl, fat lime extracted at 93% purity, and crushed marble that is mixed with special additives to control working characteristics. Although essentially the same composition, the three base powders PP100, PP200, PP300 are made-up of different proportions and colors of crushed marble powders. This means a range of natural stone-colored finishes can be achieved without the addition of any pigment.

2. Properties

- › Natural mineral material
- › Contains '0' VOC - Certified by Bureau Veritas*
- › Powders product unaffected by frost
- › Pot life 36-48 Hours, longer if well preserved
- › A wide range of finishes is achievable
- › Wide variety of colors, tones, or shades available
- › Excellent workability in a wide range of site conditions
- › Good water vapor permeability
- › Completely non-combustible as supplied or when applied

3 Test Data

3.1 Scrub Resistance

Arrcoat* Polished Plaster was tested for wet scrub resistance according to ASTM D2486 "Standard Test Methods for Scrub Resistance of Wall Paints".

Test Method	PP100	Aqua Wax
ASTM D2486	10,000+	10,000+

3.2 Stain Resistance

Polished Plaster (PP100, PP200) 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

Tea/Coffee (3)	Green Chutney (3)	Food Stain (2)
Tomato Sauce (5)	Oil Stain (3)	Alcohol Stain (5)

3.3 Mould Resistance Test

ASTM D 3273 – "Standard Test Method for Resistance to Growth of Mould on the Surface of Interior Coatings in an Environmental Chamber"

Coating	Front of Panel	Back of Panel
PP100	10-10-10	10-10-10
PP200	10-10-10	10-10-10

3.4 Impact Test (1) | VOC Test (2) | Hardness (3) (4)

Forward Impact	0.34 NM	ASTM D-3960	Nil
Shore D Hardness	72	Pencil Hardness	5H+

3.5 Fire Testing

Test Method	Results	Comments
ASTM E84	Class A	Highly Fire Retarded
BS 476 Part 6&7	Class 0	Will protect surface

Mechanical Testing - (Building Material)

Sr. No.	Tests	Result	Test Method
1	Compressive Strength, (N/mm ²) 28 Days	18	ASTM-C-109
2	Flexural Strength, N/mm ² 28 Days	6	ASTM C-S80
3	Water Retention Test, %	93.8	IS: 2250
4	Water Powder Ratio	0.48	-----

As furnished by customer.

Sr. No.	Tests	Result	Test Method
1	VOC Content, gm/Ltr.	Nil	ASTM D-3960
2	Tensile Adhesion Strength, N/mm ²	1.62	IS: 15477-2004

Note: The above test was facilitated from an external laboratory.

4 Health and Safety

Arrcoat Polished Plaster is a powdered product. A dust mask should always be worn if an allergy exists to dust. The product contains hydrated lime and cement that may act as an irritant. Wear protective clothing, gloves, and eye protection if necessary. If contact occurs you can easily wash it.

5 Suitable Substrates

Arrcoat Polished Plaster can be applied to Arrcoat recommended substrates which should be firm and true and will not crack. In our experience, the best substrates to work onto are taped and jointed plaster board and freshly plastered walls that are fully dry.



- Never attempt to apply Arrcoat Polished Plaster over wallpaper or lining paper. Great care should be taken on surfaces that are already decorated.
- Arrcoat Polished Plaster can be applied to existing painted surfaces provided the paint well adheres to the wall.
- A flat or true substrate is vital to achieving high-quality results as any bumps or imperfections may show up on the finished surface.
- Whilst Arrcoat Polished Plaster 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. MDF may also swell and warp. A set of substrate specification sheets is available from Arrcoat Surface Finishes.

6 Mixing Instructions

Always wear a dust mask or respirator when mixing Arrcoat Polished Plaster. Arrcoat Polished Plaster is packed in 18kg sacks as a dry premix. Pigments are packed into small plastic screw-top bottles and are combined with the plaster at the point of mixing.

- Pour the content of the pigment. Pot into the 30-liter drum. Fill the pigment container with water and flush out any leftover pigment.
- The total water requirement for an 18kg drum is 7.2 liters – 7.5 liters of water.
- Mix the pigment and water gently with the mixing paddle before adding the 18kg unit of plaster.
- Pour the plaster gently into the water/pigment mix gently mixing at first allowing the air to bubble out. If the finish is textured add the 6kg of marble chips. Then increase the mixing speed of the drill and mix to a thick creamy lump-free consistency.
- Leave the material to stand for 5-10 minutes and then mix once again before applying to the wall.

High pigment loading and excessive mixing can lead to the entrapment of micro-fine air bubbles in the material which will reduce its density and hardness and in extreme cases lead to blistering and delamination of the product.

When large quantities of pigment are being mixed with the material it is advisable to mix the plaster with plain water to a thick consistency before adding the pigment.

7 Application Instructions

- Mix and apply Arrcoat base coat over a layer of any normal primer.
- Scrape over the dry base-coat to remove any small lumps or trowel lines paying special attention at the corners or the interface with other surfaces.
- Apply the plaster in a small area at a time (~ 1 m²) working the material into the base-coat. Trowel in all directions leave the first layer until it is no longer tacky and the surface feels firm to the touch. This may take from 30-90 minutes depending upon site temperature and humidity.
- Take a small quantity of material onto the trowel and work into the first layer. Repeat this process progressively over the wall occasionally dropping back onto the areas already applied to trowel down smooth.
- Once the second coat has been applied cleanly off the trowel. Work over the surface with the trowel at about 45° angle to remove any excess fatty material and fill any imperfections in the surface. Trowel over the wall every 15-20 minutes until the surface is smooth and polished. Leave the surface to dry for 2-3 days and apply wax as required.



8 Coverage Rates

Arrcoat Polished Plaster is supplied in 18kg bags.

Coverage rates: ~ 120-150 SQFT per 18kg of the bag.

(*Depending on Finish) Coverage also depends on undulation and prior condition of the wall.

9 Storage

Store Arrcoat Polished Plaster in good dry conditions between 5 C – 45C. The shelf life of Arrcoat Polished Plaster in un-opened original packaging under correct storage conditions is 12 months from date of manufacture.

For BUREAU VERITAS (INDIA) PRIVATE LIMITED
Construction Services Laboratory



N.K. GOEL
Authorised Signatory
(Mechanical)



Handwritten signature and date: 3/2/2022



For Arrcoat Surface Textures Pvt. Ltd.

Handwritten signature and title: Director