



## TECHNICAL DATA SHEET (TDS)

Fast setting, bio-based, breathable plaster. Proven to reduce problems with mould and condensation.

REVISED **01 11 2022**

**20kg bags**

COVERAGE:  
**5m<sup>2</sup> at 4mm**  
THICKNESS

### Why use Breathaplasta Universal?

- Reduces risk of condensation and mould.
- Vapour permeable and moisture buffering - allows your home to 'breathe'.
- Fast and easy to install - faster completion times reduce labour costs.
- Versatile multi-purpose plaster for a range of backgrounds & applications. Design choice of textured or smooth finish.

### Product overview

Breathaplasta UNIVERSAL is a quick setting, high performance, multi-purpose plaster designed for rapid build-up onto a wide range of backgrounds, including plasterboard, wood fibre board, wood wool board, overcoating existing plaster surfaces and for rapid build-up onto solid masonry construction (brick, block, and stone). Typical applications - see table below.

Base Coat	Top Coat	Substrate	Important Notes
2mm	2mm	Plasterboard	Primer required for specialist plasterboards. See installation guide.
4mm	4mm	Wood fibre board and wood wool board	Full surface fibreglass mesh required. Aperture size approx. 4mm.
4mm	4mm	Overcoating existing plaster surfaces.	Primer may be required to provide mechanical key.
10mm	10mm	Solid masonry construction (brick, block, and stone).	Apply max. 20mm per day. Total max. thickness 50mm.

Consult the relevant installation guide for the background you are applying Breathaplasta UNIVERSAL onto. For more information and to view or download any of our resources, including Declaration of Performance for relevant certifications, please visit [adaptavate.com](http://adaptavate.com) or scan the QR code.



- Declaration of Performance
- Safety Data Sheet
- Installation Videos
- Summary Sheet
- Installation Guides
- FAQs



### Packaging

Available in 20kg sacks  
1 full pallet = 50 bags = 1000kg

### Coverage per 20kg bag (approx.)

5m <sup>2</sup>	4mm thickness
2.5m <sup>2</sup>	8mm thickness
2m <sup>2</sup>	10mm thickness
1m <sup>2</sup>	20mm thickness

### Substrates

- Suitable for a wide range of backgrounds incl. all masonry (brick, block and stone), wood wool, wood fibre and plasterboard.
- Suitable for direct application to standard plasterboard as a two-coat skim finish.
- Apply as the final surface finish to Adaptavate product - Breathaplasta Thermal. Also suitable for overskimming existing mineral plaster surfaces. Design choice of textured or smooth finish.



breathAplasta  
thermal | universal | smooth

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## Surface Preparation

- Consolidate loose material and brush away dust.
- Substrates must be uniformly flat. Dub out and consolidate uneven masonry.
- If needed, use Breathaplasta Universal to dub out any large holes and to level the wall prior to main plastering.
- Spray water onto porous substrates prior to the application of plaster – this helps to control suction. Typically, a light mist is done 2-3 times in the 10-20 mins before plastering. Backgrounds that will require misting include Adaptavate products – Breathaplasta Thermal or Breathaplasta Universal and all existing plaster surfaces. Additionally, porous substrates such as brick, block and stone will need to be misted prior to the application of plaster.
- Primer may be required when plastering onto multiple background types to help unify suction rates.
- A bonding agent (primer) is required prior to plastering onto specialist plasterboards, including fire protection plasterboard and moisture resistant plasterboard.

## How to Mix

- Mix Breathaplasta Universal to approx. 10 litres of clean water per 20kg bag of dry powder used.
- Mix for 3 minutes using a paddle mixer on a medium speed and ensure all dry powder is thoroughly mixed in. There should be no visible lumps.
- Final mix should be creamy in texture with no lumps. Mix can be applied to the wall straight away.

## How to Apply

See substrate specific installation guides.

## Working time of mixed plaster

After mixing to consistency, Breathaplasta Universal has an open time of approximately 30 minutes, depending on conditions.

Plaster mix may thicken within first 30 minutes of mixing. Use paddle mixer to loosen, as needed, prior to application. Do not remix with water any plaster that has started to stiffen after approx. 30 minutes.

Do not use when ambient temperature is below 5°C or above 25°C.

## Storage

Store in original packaging (unopened). Keep warm, dry and raised off the ground. Storage time: 6 months in original packaging.

## How to Finish

- Smooth finish: Glide a clean trowel over the plaster surface to polish it smooth. Be careful not to overwork the plaster at this stage.
- Textured finish: For a light texture apply a damp sponge float to the plaster surface in smooth circular motions.

## Important notes

- This document is not a specification.
- A small sample trial should always be conducted prior to plastering to ensure background material is compatible.
- Universal is not suitable for continuously damp backgrounds. Sources of continuous damp should be investigated and resolved prior to new plaster application.
- Forced drying, including commercial MVHR and other large ventilation systems, and/or the application of heat, can result in a less durable surface finish. In extreme cases, forced drying may lead to product failure.

Procedure	Results
Max Particle Size	2 mm
Fresh Mortar Density	1350 g/L
Dried hardened mortar density	1090 g/L
Water Absorption	1.5 Kg/(m <sup>2</sup> .min <sup>0.5</sup> )
Compressive Strength (mean)	1.7 N/mm <sup>2</sup>
Flexural Strength (mean)	0.2 N/mm <sup>2</sup>
Adhesion (concrete substrate)	0.1 N/mm <sup>2</sup> - Fracture Pattern B
Water Vapour Diffusion Coefficient	5 μ (tabulated)
Thermal Conductivity	0.27 W/mK (tabulated)
Reaction to Fire	Euroclass A1

