TECHNICAL DATA SHEET (TDS)

A fast-setting, multi-purpose, hemp-lime plaster designed for rapid build-up onto a wide range of backgrounds.

18kg bags

COVERAGE:
5m² at 4mm
THICKNESS

Why use Breathaplasta Universal?

- A lime-based, multi-purpose plaster. Combined undercoat and finishing plaster in one.
- Fast setting, pre-mixed lime plaster – faster completion times reduce labour costs.
- Vapour permeable – allows water vapour to pass through.
- Reduces problems with condensation and mould.
- Naturally regulates indoor humidity.

universal

Product overview

Breathaplasta UNIVERSAL is a fast-setting, multi-purpose, hemp-lime plaster designed for rapid build-up onto a wide range of backgrounds. Typical applications – see table below.

Substrate	Preparation	Base Coat	Mesh requirement	Setting time	Top Coat
Standard plasterboard	N/A	2mm	N/A	45-60 mins	2mm
Specialist plasterboard	Primer required	2mm	N/A		2mm
Overcoating existing plaster surfaces	Primer may be required to provide a mechanical key. Mist surface with clean water to control suction as needed.	2-4mm	Fibreglass mesh (full surface) may be needed for some applications.		2-4mm
Wood fibre board and Wood wool board	Brush clean water onto board surface to control suction.	4mm	Fibreglass mesh (full surface) is required. Trowel mesh into base coat.		4mm
Solid masonry construction (brick, block, and stone)	Primer may be required to provide a mechanical key. Mist surface with clean water to control suction as needed.	10mm	Fibreglass mesh (full surface) may be needed for some applications.		10mm

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, please visit adaptavate.com or scan the QR code.

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

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Packaging

Available in 18kg sacks
1 full pallet = 50 bags to site or 60/75 bags to yard

Coverage per 18kg bag

5m²	4mm thickness
2.5m²	8mm thickness
2m²	10mm thickness
1m²	20mm thickness

Substrates

- Suitable for a wide range of backgrounds incl. all masonry, wood wool, wood fibre and plasterboard.
- Suitable for direct application to standard plasterboard as a two-coat skim.
- Suitable for application onto hempcrete and hempcrete block. And for traditional wooden lath and plaster application, with the addition of long-strand fibres, typically horse or goat hair.
- Apply as the final surface finish to Adaptavate products – Breathaplasta Thermal. Also suitable for overskimming existing mineral plaster surfaces. Design choice of textured or smooth finish.

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breathAplasta
thermal | universal | smooth

ADAPTAVATE

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Surface Preparation

- Consolidate loose material and brush away dust.
- Spray or brush water onto porous substrates such as existing lime plaster prior to the application of plaster to control suction. Typically, a light mist is done 2-3 times in the 10-20 mins before plastering.
- Primer is required for some applications. Fibreglass mesh (full surface) is required for some applications. Consult the relevant installation guide for more information.
- If needed, use Breathaplasta UNIVERSAL to dub out large holes and to level the wall before main plastering.

Mix

- Mix Breathaplasta UNIVERSAL (decant bag slowly) to approx. 8 litres of cool, clean water per 18kg bag of dry powder used.
- Mix with a paddle mixer at medium speed for at least 2 minutes until all dry powder is incorporated and no lumps remain. Leave the plaster mix to stand for at least 2 minutes to improve consistency.
- Mix again at medium speed for 1 minute until plaster has a creamy consistency. Ideal texture is creamy and flowing, but not thin and runny. **Note:** If needed, adjust the powder-to-water ratio to achieve the required consistency to suit your substrate and working style

Apply

- Apply a coat of plaster at the thickness specified for your application – see table in **Product overview** above.
- If mesh is required (consult relevant installation guide), it should be trowelled into the base coat while still wet and workable. Ensure the full surface fibreglass mesh is completely embedded into the base coat before it sets.
- If leaving the base coat overnight or longer, lightly scratch plaster in a diamond pattern (or devil float if preparing for a finish coat) to create a mechanical key for follow-up coats.
- Ensure plaster is flat and level before allowing it to set.

Set

- Leave each coat of plaster to set and firm for approximately 45-60 mins.
- When returning to the plaster, the plaster should be firm to the touch but not fully dry. For best results, apply follow-up coats the same day or within 1–2 days

Repeat **MIX**, **APPLY** and **SET** steps above for follow-up coats of plaster.

Finish

- For a smooth finish: Apply a damp sponge float to the plaster surface in smooth circular motions. Then use a clean trowel to compress the plaster and close the surface back in as you glide the finishing trowel over the plaster to achieve a smooth finish.
- For a slight textured finish: Apply a damp sponge float to the plaster surface in smooth circular motions.

Conditions

Use in temperatures between 5°C and 25°C. Use cool, clean water for mixing. Setting times shorten in warmer conditions and lengthen in cooler ones. Do not 'force dry' plaster through heat or excessive ventilation.

Storage

Store in a cool, dry place, raised off the ground and away from moisture. For optimal performance and quality, use within 6 months of manufacture.

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.
- Breathaplasta 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^2.$min^{0.5}$)
Compressive Strength (mean)	1.7 Nmm^2
Flexural Strength (mean)	0.2 Nmm^2
Adhesion (concrete substrate)	0.1 Nmm^2 - Fracture Pattern B
Water Vapour Diffusion Coefficient	5μ (tabulated)
Thermal Conductivity	0.27 W/mK (tabulated)
Reaction to Fire	Euroclass A1

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