

PRODUCT DATA:



GUIDANCE NOTES

- **PRODUCT BENEFITS** ▪ MOISTURE BUFFERING ▪ **CO2 COMPARISONS** ▪ IMPACT RESISTANCE ▪
- ENVIRONMENTAL RATINGS ▪ **COVERAGE** ▪ RELATIVE HUMIDITY

Clayworks

Natural clay plaster wall finishes

www.clay-works.com

PRODUCT:

GUIDANCE NOTES

Clayworks

NATURAL, HIGH-PERFORMANCE, LOW IMPACT WALL FINISHES

Clayworks pigmented clay plasters are suitable for interior walls and ceilings. They can be applied directly onto most conventional building substrates with the use of a suitable primer. They are also suited to historic and eco-walling substrates such as cob, lime, hemp and strawbale.

Our clay plasters do not require painting, as the colour is inherent within the plaster. However, they can be painted with a suitable, micro-porous paint, such as clay paint or limewash if desired. The carefully blended ingredients give our plasters a unique fleck and subtle radiance, which is difficult to achieve with other plasters and paints.

We manufacture and sell ready-to-use, pigmented clay plaster in 25kg or 1 tonne bags. They come in a range of 27 earth-based colours, and can be applied by trowel or spray.

To place an order, or to talk to us about our clay plasters, please call us on 01326 341339 or email us at info@clay-works.com

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PRODUCT:

BENEFITS



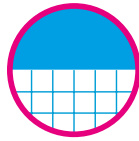
Passive (no energy required) regulation of internal humidity levels due to hygroscopic and vapour permeable nature



Improves indoor air quality (IAQ) through the absorption of toxins and odours



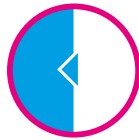
High thermal mass systems passively regulate internal temperature fluctuations.



Seamless surfaces and flexibility accommodates movement of building elements



Resistant to mould and fungal growth



Durable, easy to maintain, repairable surfaces



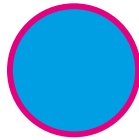
Nontoxic



Recyclable, reusable or 100% compostable



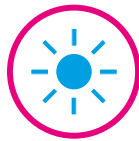
Very low embodied carbon and embodied energy



Through body coloured



100% natural, no synthetic additives



UV resistant, meaning no painting, repainting or fading



Zero VOC emissions



Effective acoustic absorber

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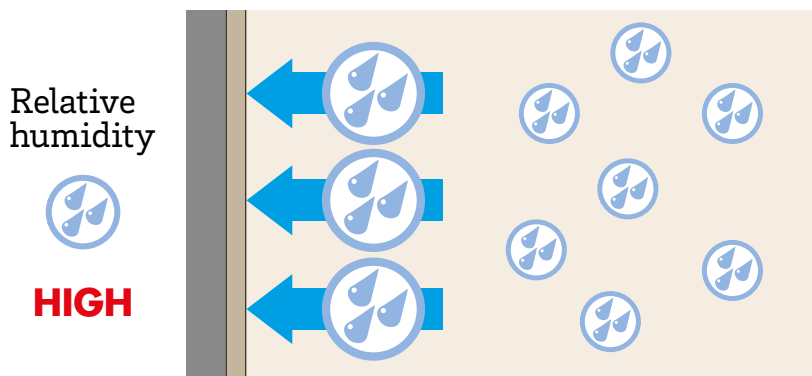
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ATTRIBUTES:

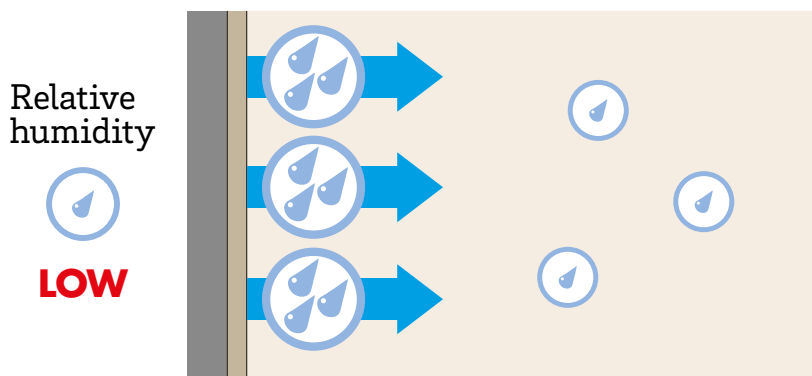
MOISTURE BUFFERING BEHAVIOUR

Clay plasters are hygroscopic, absorbing excess moisture when humidity is high and releasing it when relative humidity is low.

This behavior is perfect for maintaining a comfortable and hygienic relative humidity level in spaces prone to excess moisture, for example kitchens or bathrooms. The daily cycle of water vapor flux is best moderated by clay plaster applied at a depth of 20 mm.



Moisture absorbed and stored by clay surface when relative humidity is high



Moisture released by clay surface when relative humidity of a space is low

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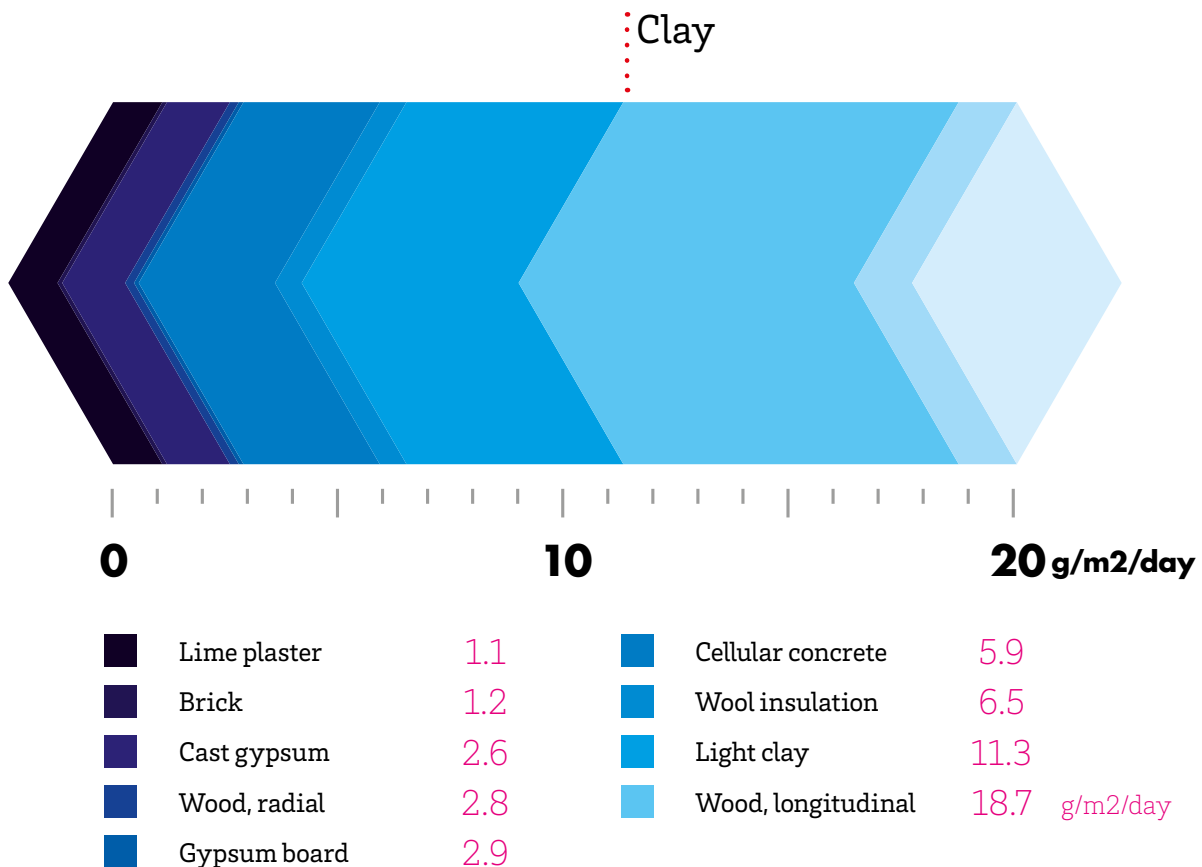
RELATIVE HUMIDITY



For optimum comfort and a healthy indoor environment humidity levels should be maintained between 30% - 70%. Clay plasters naturally help maintain these levels minimising mould and fungal growth within buildings.

Available daily water absorption

Clay is one of the best materials suitable for wall finishes with regards to hygroscopic behaviour



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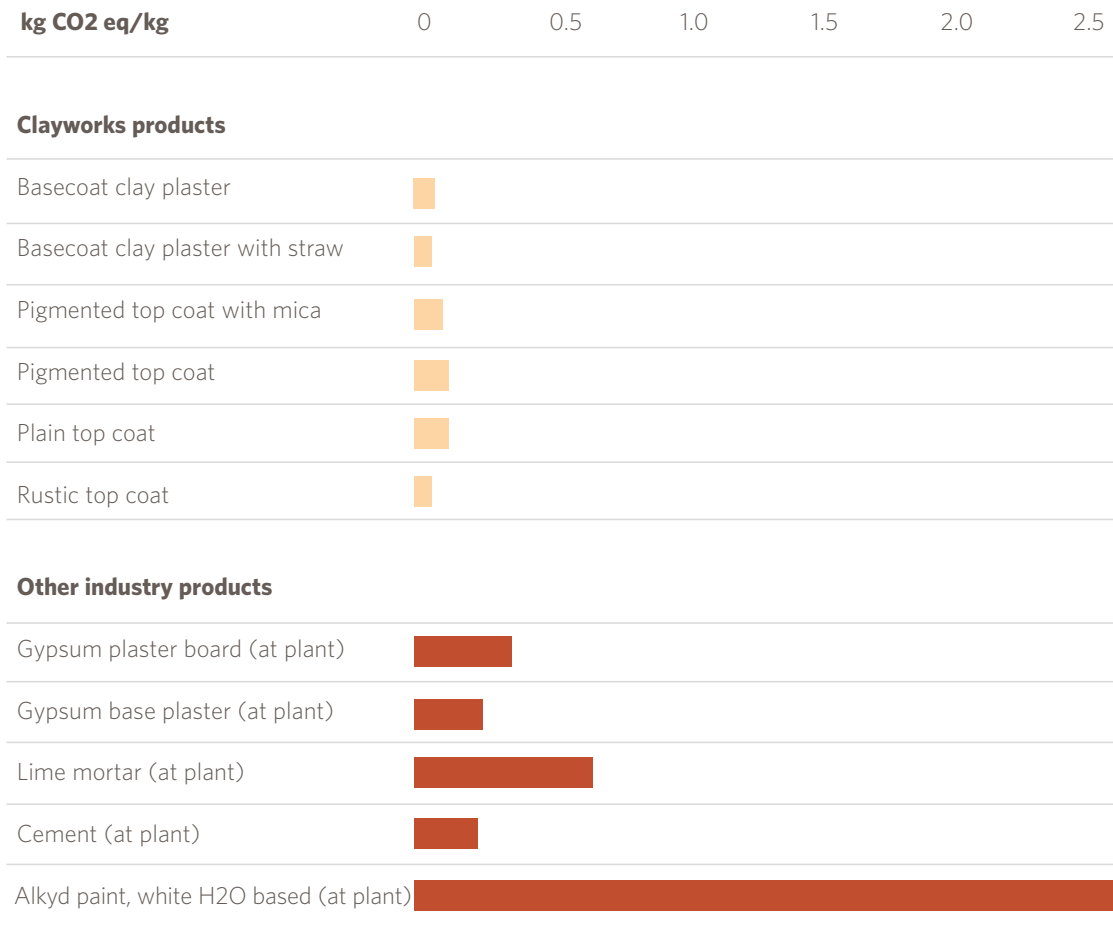
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PRODUCT:

EMBODIED CO2 COMPARISONS



Embodied CO2 is a measure of the CO2 and other greenhouse gasses released in the extraction, transportation and production of a product or material.

Clay plasters are very low carbon materials, due to the local extraction of materials and low energy processing required to produce the products. Clay plasters have one of the lowest embodied CO2 out of any interior finishes. And with clay's UV stability and repairability the recurring embodied CO2 associated with refurbishment is also kept to a minimum.

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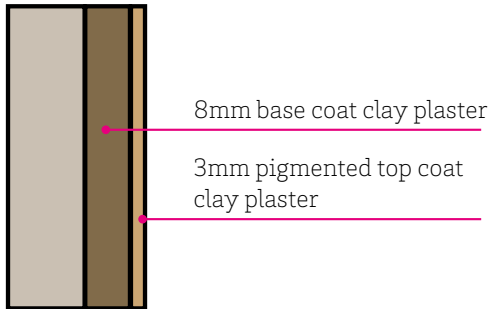
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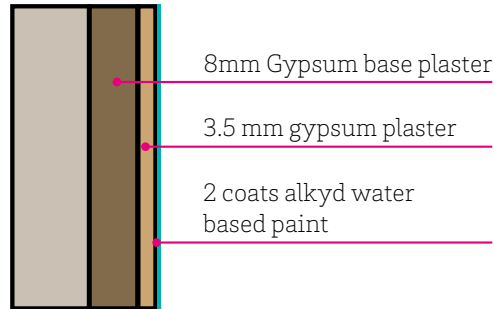
PRODUCT:

EMBODIED CO2 COMPARISONS

CLAYWORKS BUILD UP



CONVENTIONAL BUILD UP



Embodied energy per m²



2.4 kg CO² saved
for every m² of wall surface by using Clayworks products

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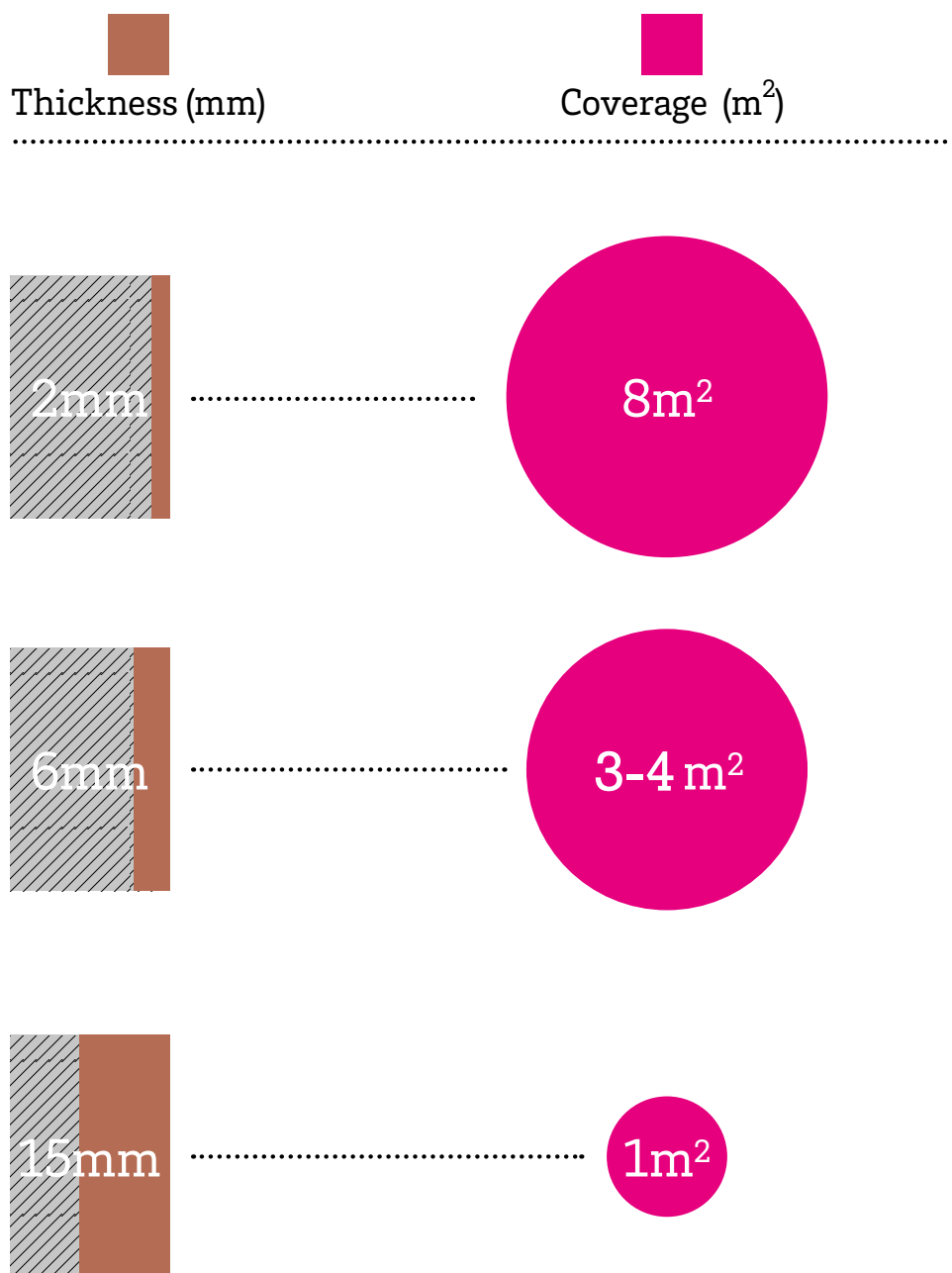
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PRODUCT:

THICKNESS AND COVERAGE



Indicative for a Clayworks 25kg pack

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PRODUCT:

APPLICABLE CREDITS TO CLAYWORKS IN ENVIRONMENTAL RATING SYSTEMS

breeam



As a high performance, low impact interior finish Clayworks clay plasters can contribute towards a number of credits in environmental rating systems for buildings. Listed below are applicable credits for LEED and SKA.

LEED



MR CREDIT 3: MATERIALS REUSE	1-2 POINTS
MR CREDIT 4: TOTAL RECYCLED CONTENT	1-2 POINTS
MR CREDIT 5: REGIONAL MATERIALS	1-2 POINTS
MR CREDIT 4.1: LOW EMITTING MATERIALS - ADHESIVES & SEALANTS	1 POINT
MR CREDIT 4.2: LOW EMITTING MATERIALS - PAINTS & COATINGS	1 POINT

SKA



D19 - MATERIALS SPECIFICATIONS
M13 - HARD WALL COVERING
D21 - TOTAL RECYCLED MATERIALS

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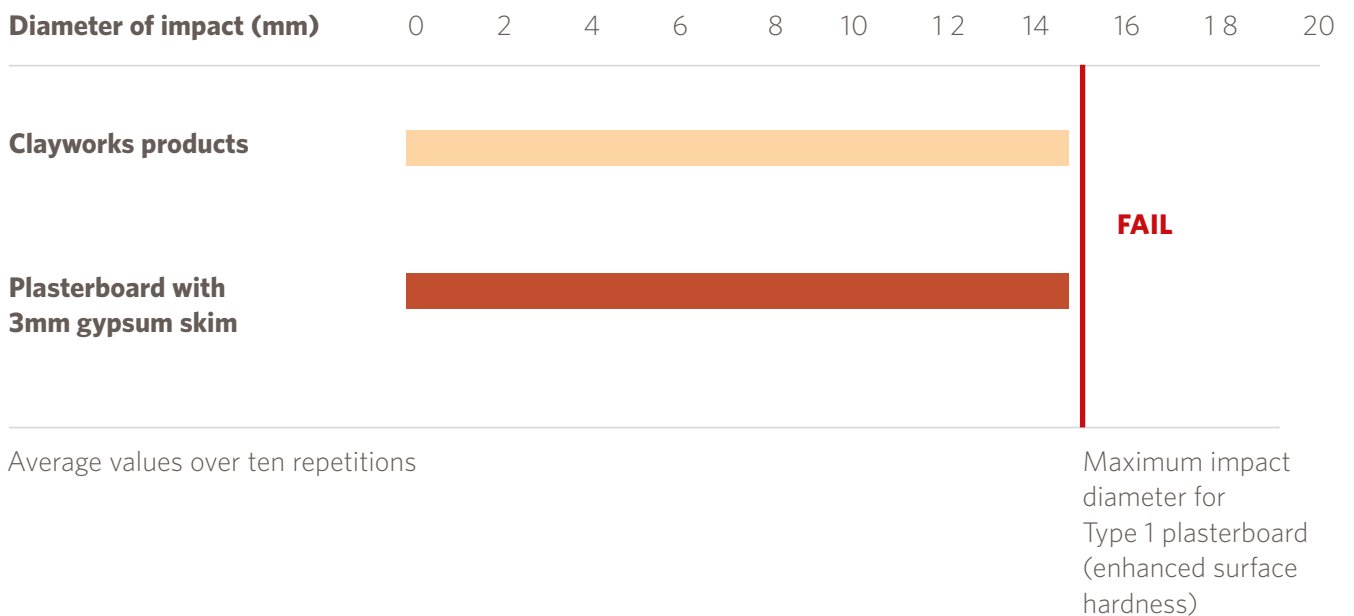
PRODUCT:

IMPACT RESISTANCE

As there is currently no standard for testing the performance of clay plasters the impact resistance of Clayworks products was tested to BS EN 520, the standard for gypsum plasterboards. The impact resistance test drops a standard weight and measures the diameter of impact.

Clayworks clay plasters achieved a surface hardness equivalent to Type I (enhanced surface hardness) plasterboard, with an average impact diameter less than 15mm. The performance was identical to gypsum rendered plasterboard tested in parallel.

Impact test: BS EN 520



Clayworks

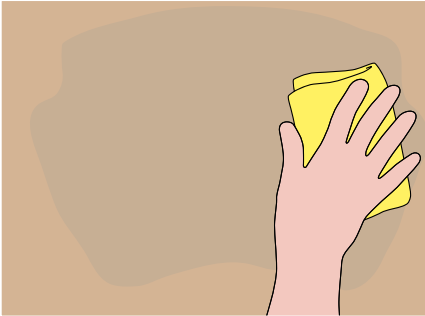
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PRODUCT: MAINTENANCE

Regular maintenance

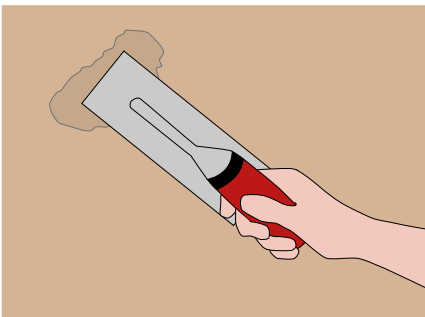


Clayworks Top coats when sealed with a protective glaze are easily cleaned by wiping with a soft damp cloth or sponge. On textured surfaces, such as the Rustic top coat with straw, cleaning should be carried out with due care and attention avoiding rough treatment of the surface.

Periodic maintenance

With proper care of a Clayworks surface major maintenance will not be necessary. Clayworks pigmented plasters, due to their mineral pigments, are UV stable, therefore will not fade in sunlight and will not need repainting.

Repairs



Any damage caused to a Clayworks surface will be inconspicuous due to their through bodied colouring. Chips, divots and scratches can be simply repaired through the addition of a small quantity of colour matched clay plaster, trowelling and reapplication of the protective glaze.

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