Clayworks
‘Throw open your window
and let the scenery of clouds
and sky enter your room.’

— Yosa Buson
Natural Clay Plasters

Clayworks clay plasters are unique blends of unfired clays mixed with minerals and pigments. They provide a healthy, breathable finish for internal walls and ceilings. Manufactured in Cornwall from abundant raw materials, they are amongst the most sustainable wall finishes available. Recyclable, compostable, reusable, and containing no toxic ingredients, VOCs (harmful chemicals released during and after application), or synthetics, Clayworks clay plasters are healthy for the planet, the building fabric, and the occupants.

As well as being 100% natural, Clayworks clay plasters are also high performance. Naturally regulating relative humidity, they allow buildings to breathe while absorbing toxins and odours. They also help to passively regulate temperature, are acoustic absorbing and are easily repaired. Application is with the same skills and tools as other wall plasters.

Clayworks clay plasters provide a unique aesthetic – with a depth of cloudy tone and texture not found in conventional wall finishes. A seamless finish, they are ready-mixed in a wide range of mineral pigmented colours with extraordinary textures, from luxurious silkiness to coarse and rustic.

Reslyn Road (left)
Architect: Magri Williams Architects
Plaster: Classic Smooth finish in WHI-08
Photo: Nicholas Worley
Clay plasters have been used extensively in buildings around the world for thousands of years. Our recipes and techniques are drawn from centuries of use, experience and wisdom, combined with modern geoscientific knowledge and creative flair.

The result is a sustainable, beautiful, durable and seamless wall finish that can be applied in any interior environment, including restaurants, retail spaces, offices, hotels and residential buildings.

The Clay House (left)
By Simon Astridge Workshop
See case study section, p.48

Clayworks Samples Showroom, Cornwall (above)
A contemporary finish in a Demi/Rustic Ombre Fade, inspired by pottery, complemented by a hand-crafted table courtesy of Benchmark Furniture.
Our Beginnings

Clayworks was born from a love of nature and a belief in natural, sustainable building practices. Adam Weismann and Katy Bryce, our founders, travelled the world to learn about the traditions of clay as a building material, while running a small company in Cornwall specialising in cob, wood, stone, clay and lime. Their vision was to explore the use of natural materials in architecture, particularly earth, as mediums to foster a balance in building that is healthy for the environment and the user, while beautiful in its design.

While focusing initially on integrity and performance, Adam and Katy also saw the capacity of natural materials to affect the way we experience the spaces we inhabit. Research for two books, Building with Cob (2008) and Clay and Lime Finishes: Plasters, Renders and Paints (2008), gave them the opportunity to study and learn from master plasterers around the world.

This journey led Adam and Katy to develop a particular fascination with the beauty, performance and aesthetic qualities of clay as an interior surface finish. Combining centuries-old knowledge in earth architecture with field experimentation, modern science and testing facilities, the focus became creating and delivering easy-to-use, ready-mix clay plaster finishes.

This culture of learning, discovery and experimentation continues to be at the heart of the Clayworks philosophy. The vision remains the same: to play a significant role in the re-imagination of clay as the interior wall finish of the future.

‘Build your architecture from what is beneath your feet’.
— HASSENL PATHY, AS QUOTED IN AN ARCHITECTURE FOR THE PEOPLE

Yoga Studio (above)
Adam and Katy building their yoga studio in Cornwall.

Cob Courtyard (right)
Mount Pleasant Eco Park, Cornwall
Designed and built by Adam and Katy
The Spirit of Clayworks

The spirit of Clayworks is rooted in nature, respect and integrity, and embodies a set of beliefs which underpin everything we do:

- Respect for nature and the environment
- Belief in natural building practice
- Creativity and innovation
- Contribution towards the health of humanity
- Appreciation of ancient, vernacular building methods and traditions

We believe in creating a positive company. One that inspires others, and respects communities, the environment and the end user.

‘Nature provides us with a space for reflection and meditation. Natural environments encourage restoration through “soft fascination”, a term that reflects the elements that capture our attention and allow for other forms of thinking, including reflection. Fascinating elements of nature include bird songs, clouds moving across the sky, or the rustling of leaves in a light breeze. Soft fascination allows the mind to wander and encourages the exploration of our thoughts.’

— Esther M Sternberg, MD. HEALING SPACES: THE SCIENCE OF PLACE AND WELLBEING

Daylesford Organic (left)
Architect: Michael Boyd
Plaster: Classic Smooth finish in WH-08
Photo: Edmund Sumner
Clayworks Finishes

Clayworks finishes fall into two categories: Classic Finishes and Custom Finishes.

The Classic Finishes range in texture, tonal variation, depth and thickness. From Tonal and Smooth (2mm) to Demi Rustic (5mm) and Rustic (8-10mm).

The Custom Finishes show the art of the possible. An opportunity to push the materiality of clay plaster, achieving completely unique effects.

All of our natural clay plasters are suitable for most properly prepared wall or ceiling surfaces, and are available in all colours.

**Classic Finishes**

- Smooth
- Tonal
- Demi Rustic
- Rustic

**Custom Finishes**

- Rammed Earth
- Rough with the Smooth
- Arakabe
- Shuttered Concrete
- Two-Tone Anaglyptic
- Ombre Fade
- Ombre Texture
- Clay on Brick
- Tamped Earth
- Corduroy
- Raw Concrete Effect
- Polished Concrete Effect
- Custom Carved
- Moonscape
- Corrugated
- Sculpted Relief
- Horizons
- Pressed Timber

*Custom Samples (right)*

Examples of custom samples in our workshop in Cornwall.
Classic Finishes

Clayworks Classic finishes are available in all of the colours on page 30, while custom colours can be created by matching RAL and reference images. All Classic finishes can be varied with different trowel and finishing techniques to create subtly different aesthetics.

Benchmark Furniture (below)
Designer: Benchmark Furniture
Plaster: Classic Tonal finish, in a custom colour
Photo: Courtesy of Benchmark Furniture

Smooth

Tonal

Demi Rustic

Rustic
Clayworks Classic Finishes

Smooth

With a soft texture, this fine finish produces beautifully smooth textured walls. Subtle tonal and textural variations take the fear out of minimalism or large empty walls. Available in all of our colours, this finish is applied at 2mm thick.

Aesthetic Opportunities

The natural mineral Mica can be added for a subtle iridescent shimmer.

Case Studies

Ponson Studio p.54
Magri Williams p.4
Daylesford Organic p.62
Clay House p.48
Cloud House p.44
Tonal

Delicate, nuanced and tactile with a silky smooth polished finish and rich tonal variation.

The raw yet highly refined and luxurious Tonal finish is imbued with warmth, elegance and sensuality, instilling a sense of emotion and movement into a space. Available in all of our colours, this finish is applied at 2mm thick.

Aesthetic Opportunities

Often specified for a polished cement aesthetic, it is a non-toxic, healthy and sustainable alternative.

Case Studies

Bamford Spa p.63
Demi Rustic

Introducing a little more texture than our Smooth finish, our Demi Rustic finish is our easiest plaster to apply. It can be finished with various textures and plastering techniques to achieve different aesthetics, from relatively smooth to more textured. Available in all of our colours, this finish is applied at 5-7mm thick.

Aesthetic Opportunities

Natural materials such as straw and minerals that resemble gold fleck can be added for endless variations and interest.

Case Studies

Fitzroy, Fowey, p. 68
Rustic

Rich in character, with varying degrees of coarseness, the Clayworks Rustic finish can be applied to create a rustic yet modern space and offers the opportunity for the unique customisation of surfaces. Available in all of our colours, this finish is applied at 7.15mm thick.

Aesthetic Opportunities
Natural materials such as straw, heavier aggregates and minerals that resemble gold fleck may be added. Heavier textured, coarser Rustics are available for a more earthy, monolithic feel to a space.

Case Studies
Mercedes Me p.56
All Saints p.58
Custom Finishes

Clayworks is pushing hard at the conventional boundaries of techniques and materials. We require only ideas, reference pictures or drawings to create custom samples.

With the opportunity to vary depth, colour, texture and pattern, the possibilities are endless.

Ombre Texture (below)
Due to the incredible ability to manipulate clay plaster as a material, it is possible to create a totally unique finish for your space.
Clayworks Custom Finishes

Raw Concrete Effect
Custom Carved
Custom Carved

Moonescape i
Moonescape ii
Carrugated

Sculpted Relief: Dunes
Horizons
Sculpted Relief: Scallop

Princess Project (above)
Architect: Anversa
Plaster: Custom Rough with the
Smooth finish in WR 02
Photo: Frederik Vercruysse
Rammed Earth finishes are pure, raw clay plater wall finishes that can be used to create seamless and beautiful re-imaginings of one of the world’s most ancient building techniques and traditions.

Made like the real thing, from 100% natural clays, minerals and sands, and coloured with natural earth pigments, this surface material is able to achieve the authenticity and feel of monolithic rammed earth. With a depth of around 10mm it also contributes to the performance of the building fabric: softening acoustics and thermal variations, moisture control and breathability. Rammed Earth finishes can be created in endless possibilities of colours and textures, with the ability to replicate local geological conditions or to evoke cultural connections to Muslim, Native American, African, Moorish, Persian or Chinese vernacular architecture, for example.

Clayworks Rammed Earth (left, facing page) Featured in the Gentle Monster store, London

Sticks N Sushi (top left)
Plaster: Custom Rammed Earth finish in a single colour
Photo: Edmund Sumner

Gentle Monster (bottom left)
Photo: Guy Valentine

Custom Rammed Earth Sample (top right) Created by Clayworks

Rammed Earth Wall (bottom right)
Photo: P-fotography
Care & Maintenance

Clayworks clay plasters are easy to maintain and repair.

- A chipped or scratched surface can be repaired with new material at any time.
- Damaged areas of plaster are inconspicuous due to their through-bodied colouring.
- Mineral pigments provide UV stability, therefore will not fade in sunlight.

Extra protection can be provided through the application of the Clayworks glaze (breathable and non-toxic). Glazed clay plaster surfaces can be gently cleaned with a damp sponge.

Design Detailing

The finer details: where two materials meet, how to achieve a robust corner, what tools and strategies enhance a materials application, etc.

To answer these questions we’ve created a suite of design detail drawings to de-mystify the application and possibilities of our natural clay plasters. To access these resources, please refer to the downloads section on our website.

Design Detail Drawings

DD01. Joint In substrate
DD02. Topcoat wall build-up
DD03. Shadow gap internal corner
DD04. Corner detail 1
DD05. Corner detail 2
DD06. Reveal trim
DD07. Wall-ceiling junction
DD08. Expansion joint
DD09. Splashback junction
DD10. Door junction shadow gap 1
DD11. Door junction shadow gap 2
DD12. Window reveal

Vertical stud spacing
300mm spacing between each, screw spacing at 100mm

100mm wide scrim
Polypropylene open mesh over plasterboard
joints filled with joint adhesive

Substrate
Typically 12.5mm gypsum plasterboard
(for thick finishes, a plywood backing to the plasterboard is required)

Clayworks Primer
Pasted onto surface

Clayworks clay plaster
One of the following:
- 2mm Smooth pigmented top coat
- 6mm Demi Rustic pigmented top coat
- 8–10mm Rustic pigmented top coat

Clayworks Glaze
2 coats of micro-porous wall glaze

DD02. Topcoat wall build-up
A full range of design and application details are available on our website: www.clay-works.com/specifications/design-detailing
Performance

Natural materials are the building technologies of the future and clay is one of nature’s moisture controlling heroes. It can safely absorb and hold moisture vapour within its molecular structure, helping to prevent moisture reaching the structural material of the building. It also promotes humidity control within a building to help protect the occupants, the building fabric and the objects within it. Clay is non-flammable and softens both acoustics and thermal variations.

Additional Attributes

- Ready-mixed for immediate application
- Through-body coloured
- Non-flammable
- Seamless surfaces negating need for expansion joints
- Easy to maintain and repair

Suitability

- Properly prepared interior walls and ceilings
- Most building substrates (some require a suitable primer) including plasterboard and other conventional and eco-walling substrates
- Buildings which need breathable finishes and wall systems, such as historic buildings
- Areas of high humidity such as kitchens and bathrooms (not in areas in direct contact with water such as splashbacks)
- Passive house construction
- Buildings emphasising high thermal mass materials
- Insulating and breathable render carrying boards

Reslyn Road (left)
Architect: Magri Williams Architects
Plaster: Classic Smooth finish in WHI-08
Photo: Nicholas Worley
Sustainability

Sustainability is our ultimate goal. From the sourcing of raw materials, through to the day-to-day operations of the business, we seek to minimise our impact on the environment.

Our clay plasters are simply blended, requiring no water in manufacturing, no additives and very little energy. There are no waste materials and the plasters are packaged in brown paper bags. Any waste on site is compostable, and because clay plasters do not change their state when they dry, they remain as raw clay that can be returned to the ground without harm.

Our natural clay plasters thus have outstanding environmental attributes.

Sustainability Attributes

- Very low embodied and whole life carbon: a possible 2.4kg carbon savings per meter squared compared with conventional wall build ups.
- Compostable at the end of life
- No waste materials during processing and no landfill materials produced on site. Any waste, including packaging is recyclable.
- No water used in the manufacturing
- Non-caustic
- No requirements for painting
- Passive regulator of humidity and temperature, thus requiring less mechanical ventilation
- 100% natural
- Recyclable

Health & Wellness

As a species, we have experienced immense disengagement from the natural world over the last few hundred years. This is a shift that has caused increased exhaustion, loss of vitality and health. The use of toxic materials in our everyday environment has only compounded these issues.

The environments we inhabit play an essential role in our overall health and well-being. And so the potential of natural materials to enhance our health and well-being are numerous. Not only do natural materials present the opportunity to improve one’s physiology, health and comfort – but also one’s psychological health and state of mind too.

Because our clay plasters are composed of 100% natural materials, their attributes set them apart from other similar products on the market, and offer a way of enhancing our lives and the lives of others, for generations to come.

Health Attributes

- Non-toxic
- No VOCs
- 100% natural
- Absorbs odours
- Absorbs toxins
- Acoustic absorber
- Breathable
- No off-gassing
- Helps to maintain indoor moisture levels between 40-60%, the level recommended by Allergy UK to help prevent respiratory problems and illness.
- Helps mitigate the effects of indoor ozone and formaldehydes.

* See website for further information: www.clay-works.com/specifications/sustainability

The Cloud House (above)
Architect: Tzeero Shimazaki Architects
Plaster: Classic Smooth finish in WHI-07
Photo: Taran Wilhbu, courtesy of The Modern House

Clayworks
Our Service

Clayworks clay plasters are a celebration of colour and texture. When working with our clients we seek the best answers, not the easiest solutions. Creating new finishes is a synthesis of art and science, and Clayworks is simultaneously a creative practice, a research laboratory and a manufacturing facility.

Browse our brochure and our online galleries for inspiration, discuss your ideas with us and send reference pictures, colour and texture choices or RAL references.

Samples
We are happy to send samples anywhere in the world, of either our standard colours and textures, or customised to your ideas.

Materials
Clayworks clay plasters are made in Cornwall, packaged into 25KG bags and shipped directly to site, anywhere in the world.

Applicators
Clay plasters are applied with the same tools and skills as other plasters. We recommend that the application is done by a Clayworks approved plasterer and can put you in touch with talented applicators from around the world.

‘Each material is only what we make it. If you can dream it, you can do it.’

— CONSTANTIN BRĂNEȘCU
All of our natural clay plasters are available in 88 beautiful colours.

Like with any natural material, tonal shifts within a particular colour are possible. All colours shown overleaf are in our Smooth finish. Colour may vary according to different finishes. Please see reverse for colour variation example. We also offer custom colours according to RAL, Pantone and reference images.
'The maker from the outset is a participant in amongst a world of active materials. These materials are what he or she has to work with and in the process of making them, he or she joins forces with them, bringing them together or splitting them apart, synthesising and distilling, in anticipation of what might emerge.'

— Tim Ingold, anthropologist

Manhattan Loft Gardens -
The Stratford Hotel (top)
Architect: SPACE Copenhagen
Plaster: Classic Tonal finish in GRY 07
Photo: Taran Wikihu
Case Studies

The following projects demonstrate everything that is aesthetically unique – and possible – with clay plasters. From delicate and nuanced, silky sophistication to three-dimensional and sculptural designs, a clay plaster wall embodies craft, art, sculpture, design, and architectural sensibilities.

Manhattan Loft Gardens
The Stratford Hotel (top)
Architect: SPACE Copenhagen
Plaster: Classic Tonal finish in GRY-07 and Classic Smooth finish in PIN 06
Photo: Tarun Wilkhu
The Cloud House, London

Taking its inspiration from Turner’s ‘Interior of an Italian Church’, this London home features natural stone, concrete and clay plaster surfaces. Light floods in from the large arched windows and tactile surfaces soften the minimalist, Japanese-inspired design.

“We agreed that the principles and materials that would bring this concept to life should follow the Japanese philosophy of wabi-sabi, which embraces authenticity, simplicity and natural design,” says owner Anabel Cutler.

<table>
<thead>
<tr>
<th>Plasters</th>
<th>Classic Smooth finish in WHI-02 &amp; WHI-07</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architects</td>
<td>Takero Shimazaki Architects</td>
</tr>
<tr>
<td>Photography</td>
<td>Courtesy of The Modern House and Taran Wilkhu</td>
</tr>
</tbody>
</table>
Aesop, Duke of York Square

A blend of classic and futuristic design; our coarse clay plaster contrasts with stainless steel elements and colour gradients to create a space with enormous depth and vibrancy.

“We live in a time of efficiently manufactured objects and are choosing to restore the wholesome, visible, made by hand.” — Alastair Parvin, Aesop founder

“The atmosphere is pure and honest, embodying the connection between our earth and its resources and how it used correctly can create meaningful and timeless places, no matter the scale.” — Peter Gergis, Senior Interior Architect, Snøhetta.

<table>
<thead>
<tr>
<th>Plasters</th>
<th>Custom Textured Ombre Fade finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architects</td>
<td>Snøhetta</td>
</tr>
<tr>
<td>Photography</td>
<td>Courtesy of Snøhetta</td>
</tr>
</tbody>
</table>
Clay House, London

“The clay adds a beautiful depth to the wall that cannot be achieved through decoration... The most beautiful part of this project is how the London skyline changes everyday and how the clay has a relationship with the clouds and hues outside.” Simon Astridge.

<table>
<thead>
<tr>
<th>Plasters</th>
<th>Classic Smooth finish in WHI-08 Moon motif in custom colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architects</td>
<td>Simon Astridge</td>
</tr>
<tr>
<td>Photography</td>
<td>Nicholas Werley</td>
</tr>
</tbody>
</table>

Case Studies
Princess Project, Antwerp

A single material, permeating throughout a space to create a seamless expanse of raw beauty. An example of how pure materiality can create a beautiful simplicity, rhythm and sense of calm. And where light flows freely across this single surface, to create a dynamism and energy.

**Plasters**
- Custom Rough with the Smooth finish
- Exterior Custom Rough with the Smooth finish. (Please enquire about our new range of external finishes.)

**Architects**
- Anversa

**Photography**
- Frederick Vercruysse
Walmer Yard, London

“The interiors of chopped straw and black clay plaster follow once again a Japanese aesthetic of roughness... beauty of the imperfect.” Peter Salter, quoting Sōetsu Yanagi from his book The Unknown Craftsman.

“The use of chopped straw and clay in a range of earth colours adopted throughout the houses, follows the patchwork quality of traditional interiors of Japanese farmhouses in which light reflection dictates the colour of the plasters. At Walmer Yard, the delicacy of the surfaces works with the grain of the poured concrete.” Peter Salter, Walmer Yard.

<table>
<thead>
<tr>
<th>Plasters</th>
<th>Classic Rustic finish with straw in custom colours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architects</td>
<td>Peter Salter &amp; Penella Collingridge</td>
</tr>
<tr>
<td>Photography</td>
<td>Edmund Sumner</td>
</tr>
</tbody>
</table>
Porteous Studio, Edinburgh

The journey from dilapidated garage to a sublime luxury retreat in the heart of Edinburgh is captivating. An example of immense attention to detail, a passion for pure, natural materials and meticulous design.

Plasters: Classic Smooth finish in WH4-08
Architects: 1x1 Arundell
Photography: ZAC and ZAC, courtesy of Porteous Studio
Mercedes Me, Hong Kong

The interplay of light and shadow on clay plasters is a wonder. It appears as if there is a warm light emanating from the plaster, while glare from artificial light is absorbed and the ultimate beauty of shadows is enhanced. The striking intersect of light and shadow on the Demi Rustic surface are accentuated too, by the unique forms created within the interior architecture.

<table>
<thead>
<tr>
<th>Plasters</th>
<th>Classic Demi Rustic finish in OLI-03 &amp; YEL-02</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architects</td>
<td>Vonsung</td>
</tr>
<tr>
<td>Photography</td>
<td>Courtesy of Joseph Vonsung</td>
</tr>
</tbody>
</table>
All Saints, Manchester

The bold, brutalist aesthetic and the effects of raw concrete never fail to stimulate architects and designers. Clayworks Raw Concrete wall finish looks like the real thing, but is a 100% natural, low carbon, compostable and non-toxic alternative.

<table>
<thead>
<tr>
<th>Plasters</th>
<th>Custom Raw Concrete finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architects</td>
<td>Al-Juwad Pike</td>
</tr>
<tr>
<td>Photography</td>
<td>Taran Wilkhu</td>
</tr>
</tbody>
</table>
Jiva Spa, London

A specialist finish for helping to preserve and enhance historic brickwork in the depths of these Victorian cellars in London which have been restored and re-purposed as a luxury spa. This custom black colour brings a soft, textural and earthy patina to the walls in sympathy with the natural texture of old bricks.

Plasters  Custom Clay on Brick finish in custom black. Classic Tonal finish in GRY-02

Architects  Emil Eve Architects Ltd

Photography  Andy Stagg
Daylesford Organic, London

Delicate, nuanced, everything softened by movement and the patina of raw earth’s understated and cloudy tone. Clay finishes were a natural choice for Daylesford Farm Organic Store. Smooth curves, angular surfaces and crisp edges create a soft, yet detailed surface.

Architects: Michaelis Boyd
Photography: Edmund Sumner

Bamford Spa, London

A sensorial yoga studio that is calm, healing and warm is created with raw materials. Clay lets natural light diffuse and dissolve into an interior, which can be kept bare and minimal, emphasizing the strength and preciousness of the light, architecture and design.

Architects: Crawford & Gray
Photography: Edmund Sumner
**Sticks N Sushi, London**

The surfaces of this London restaurant have a finish resembling natural earth, with a beautiful, distinctive, geological quality. Textured and craggy, the material makes the interior feel alive and almost monolithic.

<table>
<thead>
<tr>
<th>Plasters</th>
<th>Custom Rammed Earth finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architects</td>
<td>Nei &amp; Hu</td>
</tr>
<tr>
<td>Photography</td>
<td>Edmund Sumner</td>
</tr>
</tbody>
</table>

![Image 1](image1.jpg)

![Image 2](image2.jpg)

![Image 3](image3.jpg)

![Image 4](image4.jpg)

Clayworks
Fitzroy, Fowey

“We find beauty not in the thing itself but in the patterns of shadows, the light and the darkness, that one thing against another creates.” Jun’ichirō Tanizaki, In Praise of Shadows.

Contrasting colours and tones create a richness, depth and warmth - bringing an air of French, rustic modernism into this radiant space.

<table>
<thead>
<tr>
<th>Plasters</th>
<th>Classic Demi Rustic finish in custom colours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architects</td>
<td>Fitzroy Fowey</td>
</tr>
<tr>
<td>Photography</td>
<td>Anthony Greenwood</td>
</tr>
</tbody>
</table>