



Beeck Mineral Paints

Internal & External Paints



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About Beeck

History of Beeck Paints

Ludwig Beeck founded his company in 1894, in Breslau Germany producing pure active mineral paints based on water glass as an alternative to limewash. His paint achieved a strong chemical bond to a porous masonry substrate using many of the same components that make up Beeck Mineral Paints today.

The post war construction boom and the availability of synthetic resin emulsion paints were challenging times for these paints, but the structural damage caused by these and other inappropriate materials in that period was extensive and the effects are still being seen today. However, BEECK'schen Farbwerke has remained true to the ethos of these natural coating systems and is the only manufacturer in Germany allowed to use the tag "ASF" for their one component mineral paints denoting their "Active Silica Formula".

Breathable Paints

A breathable paint is a material that will allow the water vapour to permeate, travel or transfer through itself, which is essential for older buildings with thick solid walls with no cavity. Moisture transfer is essential to allow the building to breathe, protecting the wall and the internal environment of the building.

Using a conventional paint of this kind on a historic building can lead to moisture building up within the walls, causing the paint to blister or bubble, damaging the render, and even the fabric of the wall.



Vapour
Permeable



Durable
Finish



Natural
Materials



Chemical
Bond



Eco
Friendly



Recyclable
Packaging



Mineral Paints

Beeck have been manufacturing mineral silicate paints for over 120 years. Unlike modern coatings, Beeck paints do not form a film over the substrate; they form a direct and inseparable chemical bond to the substrate. Due to this chemical bond a highly stable, durable and lightfast coating is achieved. This process results in a long lasting finish that can be over coated numerous times, making maintenance simple, efficient and extremely economic.

The range is comprehensive and unsurpassed in terms of lightfastness, vapour permeability and durability. Suitable for historic and contemporary buildings. With over 250 colours that are hand mixed to order.

Full Range

This booklet includes the key products in the Beeck range, which are generally suitable for 99% of applications. Please view the Beeck Product Range catalogue for the full range of Beeck products.



Not Oil
Based



Low
VOC's



Fire
Resistant



Natrually
Alkaline



Cleaning
Resistant



Suitable for all
Applications

Preparation

Preparing a Wall for Painting.

Preparation is a little thing that makes a big difference. In every aspect of painting and decorating preparation is vital, and while Beeck paints are technically superb, they still require a properly prepared background for optimal performance.

Ensure walls and backgrounds are adequately prepared before painting. See individual application guides for full details.

Thoroughly clean existing lime renders and remove as much of the existing paint as possible. Ensure fresh lime render has had time to carbonate (at least a month, if not longer).

Thoroughly clean existing lime wash or lime paint, and apply etching fluid.

For substrates that may have a high salt content, such as old brick, there is the potential for this to pull through and cause unsightly discolouration; talk to your Beeck supplier first, before preparing or painting the wall.

Primers and Preparation Products

To ensure a successful bond with the substrate, Beeck produce a range of primers and preparation coats for virtually any background.

These products can be universal or highly specific. For more detailed guidance, please read our technical data sheets, application guides or contact your Beeck supplier.





Beeck Etching Fluid

Acid concentrate for removing lime binder deposits from new render and exposing silica for the paint achieve a stronger chemical bond.

For Use With: Beeck External Paints



Beeck Fixative

Primer and consolidator for mineral surfaces prior to applying Beeck silicate paints. Fixative can also be used to thin certain Beeck Paints and bind crumbling mineral surfaces

For Use With: Beeck Internal & External Paints



Beeck Gypsum Primer

A white base coat for gypsum based materials prior to the application of Beeck Mineral Paints, ensuring a strong chemical bond. Gypsum Primer can also be tinted to match the final paint colour, reducing the number of coats required.

For Use With: Beeck Internal Paints



Beeck Quartz Filler

Designed to fill surface imperfections and defects such as hairline cracking and has the ability to level uneven surfaces. As a coating Quartz Filler offers a fully active chemical bond to mineral surfaces, which immediately improves the durability of the paint finish.

For Use With: Beeck Internal & External Paints





External

Externally is where the Beeck mineral paints are unsurpassed, a factor that is becoming increasingly recognised because of our improved understanding for moisture diffusion, especially with regards to the walls on older historic buildings.

Offering ASF, Beeck Mineral Paints will comfortably outlast any conventional paint coating, even in the most testing environments.

Beeck's external range of mineral paints also contain the addition of a hydrophobe. While it isn't fully waterproof it is a valuable asset in repelling rain water to assist and significantly reduce the levels of water from entering the building fabric. This addition further protects the building and allows it to dry much quicker during wet spells, providing an additional layer of security and protection.



Beeck Beeckosil

Highly breathable and hard wearing, silicification active ready to use exterior silicate paint. Designed to be applied to mineral backgrounds such as natural stone and lime/cement renders.



Beeck Renosil

Breathable and hard wearing exterior silicate paint. Designed as a renovation coating that can be applied over firm, existing paint coatings or onto new render and mineral surfaces.



Beeck SP Plus

Highly breathable and hard wearing clear hydrophobing (water repellent) coating for absorbent mineral surfaces, such as lime render and porous natural stone.



Internal

Beeck internal paints are fully vapour permeable, suitable for application onto any internal substrate with the correct primer.

Internally Beeck paints can help regulate humidity, achieving a healthier internal climate, as well as offer unsurpassed durability.

All Beeck paints contain extremely low VOC's, are free from chemicals and additions, produce no hazardous waste or by-products, and can be fully recycled. They are naturally alkaline and therefore resistant to mould growth, and naturally fire proof due to their mineral composition.

Beeck Insil



Our standard internal paint, Insil offers the benefits of silicate paints for a more economical price, including breathability, durability, longevity and manufactured using natural ingredients with a much lower VOC content than conventional paints.

Beeck Maxil



Our mid range internal paint, Maxil offers higher durability and coverage compared to Insil, alongside all of the other benefits of Beeck Mineral Paints. Maxil can also be coloured with the full range of 200 colours.

Beeck Sensil



Our top range internal paint, Sensil offers excellent breathability and a scrub resistant finish. Active Silicification provides the most durable and long lasting finish available, ideal for high wear commercial applications.



External Paint System

Primer Based on Background

Apply **Etching Fluid** then **Fixative** over bare lime renders, bare cement renders and existing lime wash

Apply **Fixative** only over stone, brick and existing mineral paints

On any existing acrylic paint or other coatings, clean down and remove as much as possible (no primer necessary)

Two Coats Paint



Beeckosil

Applied Over:

Bare lime renders, stone and brick and existing lime wash or mineral paint.



Highest Opacity (Class 1)



All Colour Groups available



Renosil

Applied Over:

Bare cement renders, all existing acrylic paints and other coatings



Highest Opacity (Class 1)



All Colour Groups available

For walls with hairline cracks, Beeckosil and Renosil are available as both coarse and fine paints. The first (coarse coat) can be painted using the coarse paint, which contains marble dust to cover over hairline cracks. The second (fine coat) is then painted as normal.

Internal Paint System

One Coat Primer Based on Background

Apply Beeck Fixative over lime plaster - bare, lime washed or painted with mineral paint

Apply Gypsum Primer* over gypsum plasters, cement, or any background with acrylics, waterproofing or other coatings previously applied.

Two Coats Paint



Insil



Maxil



Sensil

Standard



Good Scrub Resistance
(Class 3)



High Opacity
(Class 2)



Available in Colour Groups I & II

Superior



High Scrub Resistance
(Class 2)



Highest Opacity
(Class 1)



All Colour Groups available

Premium



Highest Scrub Resistance
(Class 1)



Highest Opacity
(class 1)



Available in Colour Groups I & II

Scrub Resistance and Opacity have 5 standard classes, from 5 (lowest) to 1 (highest).

*Gypsum Primer can also be tinted to serve as a base coat for Group I and II colours (the primer cannot support pigment doses for stronger colours) when using Maxil and Sensil.

Instead of applying one coat primer and two coats paint, you can opt to apply one coat of tinted primer, and a finishing coat of Maxil or Sensil (Insil does not have the opacity, and would still need to be applied in two coats)



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Please get in touch for more information on what mineral paints are, why you should use Beeck paints and for a colour card.

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