

# AURO

Passion for natural paints



- Solvent-free ✓
- Biocide-free ✓
- Microplastics-free ✓

## Ecolith — system of the future

Flexible, highly resistant, mineral facade paints and interior wall paints for all substrates

# Groundbreaking paints for facades and interior walls

## High-performance quality at its best

It is particularly the combination of super flat graphene matrices with their extraordinary characteristics and a very special paint formulation that makes the ecological mineral paints **Ecolith Interior** and **Ecolith Exterior** an enormously efficient coating material.

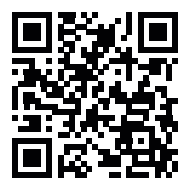
The **graphene-based innovation** is the basis for the technological advance of the products. It lends a significantly better adhesion, durability and elasticity to these coating materials.

In the colour matrix, very big surfaces are formed. The resulting thinness of the film provides for the very high yield of these special products.

Convince yourself of the many advantages of the novel purely mineral **Ecolith facade paint and interior wall paint**.

### AURO company portrait

You do not yet know AURO? Have a look at the exciting history of our company. Find out more about AURO's philosophy and the milestones of more than 35 years of successful development of natural paints.

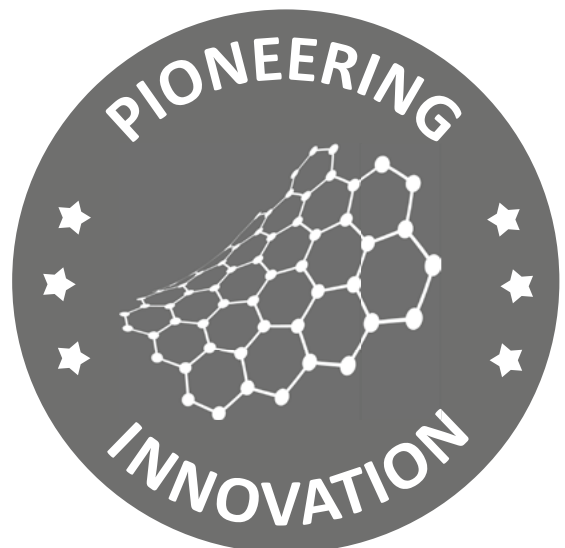
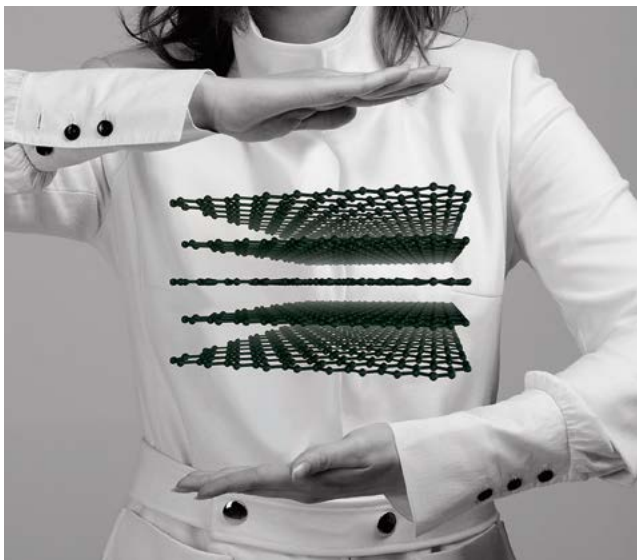




## Graphene-based innovation: Improved durability and greater flexibility

Graphene originates from the mineral graphite that has been known for centuries and is commonly familiar from its use in pencils. In paints and coatings, it is responsible for various innovative product characteristics: stability, thermal conductivity, flexibility, strength, longevity, coverage and homogeneity. As a consequence, maintenance requirements and costs decrease.

The graphene used in our products is obtained in a patented production process by an innovative supplier we are engaged with in an exchange on new perspectives for already used raw materials as well as innovative approaches for new product developments like the Ecolith paint range for facades and interiors.



# The coating system of the future

## Ecolith — free from microplastics

The discussion on microplastic assumes great importance in the context of environmental impacts. The effects of many harmful substances are not easily detectable. However, a Norwegian study\* comes to the conclusion that approximately 17% of microplastics generated worldwide originate from the abrasion of paints and lacquers on exterior surfaces that were produced with plastic-based binders containing pure acrylates, silicone resins, styrene acrylate or similar.

Thus, several tons of these poorly filtrable plastic particles are released into the environment and partly into human organisms. Despite their high performance level and thanks to their mineral raw material basis, **Ecolith products are completely free from microplastics** and other pollutive substances.

## Green Building

### A healthy solution for man and nature

The composition of the products, the Cradle to Cradle certification and the technical characteristics of the Ecolith product system all support the fulfilment of the requirements of life cycle engineering systems like LEED, BREEAM or DGNB. In doing so, AURO products continue to promote significantly the principles of **sustainable construction and housing**.

### Certification Cradle to Cradle™ „GOLD“

Ecolith Exterior (343) and Ecolith Interior (341) were awarded the important certification Cradle to Cradle™ „GOLD“ that confirms the product's sustainable, green product lifecycle.



Ecolith coating system - technical values	
White degree (341, 343)	more than 98%
Surface appearance (341, 343)	matt white
Strongly alkaline, pH value	≈ 12
Reworkable	after 4 h
Sd value	class 1
Water vapour permeability	class 1
Wet abrasion resistance acc. to EN 13300	class 1
VOC emissions	none
Formaldehyde emissions	none
UV resistance, binding agent	100%
UV resistance, pigments	100%
Priming necessary	as a rule, no
Remineralization of the surface	yes
Biocide-free	yes
Solvent-free	yes
Microplastics-free	yes

\*Norwegian Environment Agency (Miljødirektoratet): „Sources of microplastics-pollution to the marine environment“, 2014.

***„Nowadays, innovative ecological facade coatings can do without any microplastics“,***  
*says Dr. Markus Lettau, Head of Research and Development at AURO.*



# Ecolith

Exterior No. 343

## Extremely economical

The platelet structure of graphene provides for excellent product features and a **low product consumption**. For the processor this means **very economical and efficient application**.

## Highly resistant in beaming white

This new facade paint is extremely flexible, resistant and, with a contrast ratio of 98%, also highly covering. The **wet abrasion resistance according to EN 13300 (Class 1)** and the **5-year product guarantee** on exterior applications speak for themselves.

## For all substrates

Whether it is a mineral substrate, an old coating or a conventional plaster, **Ecolith Exterior** can be applied on all common exterior substrates. The **quick drying** allows for a reworking of the painted surface within four hours. However, already the first coat provides good results.





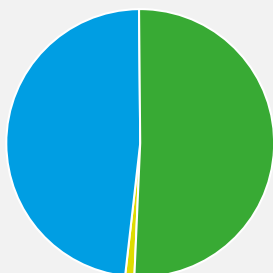
## Durably white instead of grey in good time

The novel combination of ingredients used for **Ecolith Exterior** provides for a low tendency towards surface contamination which keeps the facade durably clean. The effect of **hydrophobing** makes sure soiled water simply rolls off. In addition to that, the process of **micro-chalking** brings forth a self-cleaning effect that includes a remineralisation of the surface over time.

*„Excellent craftsmanship needs high-class material to work with“, says paint engineer Kai Bormann.*



### Ecolith Composition



- Renewable natural materials
- Processed natural materials
- Mineral materials
- Synthetic materials/ microplastics

# Ecolith

## Interior No. 341

### The mineral specialist for indoor areas

The paint is **quick-drying** and **universally applicable** on all substrates, with an excellent covering power and high productivity. The supporting characteristics of the innovative **graphene technology** allow to complete the painting of several rooms on the same day.

### For highly resistant surfaces

The excellent **wet abrasion resistance acc. to EN 13300** makes Ecolith the perfect product where highly durable and resistant surfaces are required. The product is therefore particularly well suited in public places like schools, kindergardens, offices, hotels, hospitals, nursing homes, doctor's offices, shops, restaurants etc.

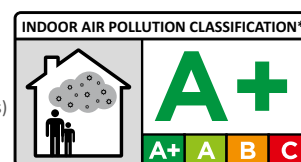
#### Powerful and future-oriented Ecolith Interior / Exterior

Suitable for allergy sufferers	✓
Highly abrasion resistant	✓
Extremely flexible	✓
Optimal covering power	✓
Suited for all interior surfaces	✓
Highly breathable	✓
Contains no preservation agents	✓
Absorbs odours	✓
Emission-free	✓
Helps to avoid mould	✓
Quick-drying	✓
For rooms to be quickly painted and moved back into	✓

### Emission-free interiors

**Ecolith Interior** also fulfills the strict criteria for interior areas defined in the French VOC regulation and gets the **best possible rating A+**.

\*Degree of emissions of volatile substances into the room air which may represent a toxic hazard by inhalation, on a scale from A+ (very low emissions) to C (high emissions) based on French VOC regulations.





**„This paint has a fantastic coverage. For me as craftsman this means I can save time and costs“,** says master painter Michael Hilgendorf.





## Choose your favourite colour

The products **COLOURS FOR LIFE Ecolith Interior (584)** and **COLOURS FOR LIFE Ecolith Exterior (594)** are available in 134 colour shades. The **Ecolith colour chart** gives you an overview of the shades you can choose from. The more detailed **COLOURS FOR LIFE colour fan** includes these shades as authentic paint coatings and therefore is the authoritative source for an objective colour evaluation.



## Natural and permanent colour shades

The combination of a UV-resistant mineral binding agent and synthetic-free anorganic pigments included in group 1 defined in the BFS Data Sheet No. 26\* provides **long-lasting shades** with the **highest possible resistance to light**.



The colour chart can be downloaded from our website [www.auro.de/en](http://www.auro.de/en).

\* The data sheets of the German BFS (Federal Committee for Paints and the Protection of Objects) constitute guidelines for the painting trade. BFS Data Sheet No. 26\* is titled „Colour changes of exterior coatings“.

# Ecolith coating system

at a glance



**Ecolith Exterior no. 343**

**5,0 L | 12,5 L**



**COLOURS FOR LIFE  
Ecolith Exterior no. 594**

**5,0 L | 12,5 L**



**Ecolith Interior no. 341**

**1,0 L | 5,0 L | 10,0 L**



**COLOURS FOR LIFE  
Ecolith Interior no. 584**

**1,0 L | 5,0 L | 10,0 L**

- + very economical, emission-free
- + excellent coverage, quick-drying
- + highly abrasion resistant
- + recoatable after 4 h already
- + purely mineral, inhibits mould

- + free from microplastics
- + highly breathable
- + high degree of whiteness (341, 343)
- + suitable for allergy sufferers
- + exterior paint: 5 years product guarantee



## Pioneering innovation in the blue bucket

With the new Ecolith system we set an important standard. The mineral paints for facades and interior surfaces comply with the highest technical requirements and thus meet the high standards of AURO's research and development.

Our unique concept, the constant search for the perfect raw materials and our long-standing know-how result in ecological paints with first-class product quality, to the advantage of customers and painters.

AURO AG | As of 09.2019

This brochure was received from:

**AURO Pflanzenchemie AG**  
Alte Frankfurter Straße 211  
D-38122 Braunschweig  
Telefon +49 531 - 281 41 0  
export@auro.de | www.auro.de/en

**AURO**  
  
Passion for natural paints