



# Foresta

PURIFYING PAINT

- ✓ “high-performance paint” with photocatalytic properties. Actively air-purifying and disinfecting. Breaks down bacteria and viruses. Highly vapour permeable and excellent washability (scrub class I)
- ✓ VOC and APEO free
- ✓ For larger projects, new construction and renovation, With toner system. Highly effective and can be coloured in on site. For projects such as in hospitals, nurseries, hotels and restaurants, office buildings and residential complexes.
- ✓ Straight from partner to project





Live and work  
comfortably

In a safe environment

Free from bacteria, viruses  
and volatile organic compounds

Start today

It is easy and very effective

And doesn't require heavy  
investments

Paint your spaces with

**Foresta**

The organic, air-purifying, disinfecting  
and washable wall paint

Beautiful and very good for the  
environment  
for yourself  
your children  
family  
employees  
your guests and patients

## The system behind Foresta air-purifying paint: photocatalysis

Photocatalysis, the theory of the invention.

Recent media reports have called photocatalysis the “most significant Japanese invention of the 21st century”. But what is the process of photocatalysis, and the photocatalysts that make this possible?

A photocatalyst is a coating agent that contains Titanium Dioxide as the active ingredient. A chemical oxidation-reducing reaction occurs when sunlight or artificial light, comes into contact with the photocatalyst. The smaller the particles are, the faster the reaction occurs with less light. When the coating is applied to a surface, it acts as:

- 1. Antimicrobial catalyst** that protects against adhesion, spread of dirt and micro-organisms (bacteria, viruses, algae and fungi) on a surface.
- 2. Air purifier**, by using a photocatalytic coating to paint interior walls, airborne Volatile Organic Compounds (VOCs) such as formaldehyde, unpleasant odours (smoke), and various germs (influenza, viruses such as COVID-19, mould, E-coli, Staphylococcus aureus, MRSA etc. that cause the “Sick Building Syndrome” are broken down and rendered harmless.
- 3. Water- and dirt-repellent**, the coating forms a hydrophilic layer on a surface, preventing water and dirt from adhering to it. Surfaces are less likely to get dirty and are easier and faster to clean by, for example, only rinsing with water, requiring less expensive and polluting cleaning agents.
- 4. UV protection**, because the coating is activated by UV light and converts UV energy into hydroxyl radicals, it prevents surfaces from becoming UV permeable or affected (discoloured).

### Titanium Dioxide

Titanium Dioxide (TiO<sub>2</sub>) is a common raw material on the Earth’s surface and generates a solid antimicrobial and self-cleaning effect by coming into contact with UV light. Titanium Dioxide acts as the catalyst in photocatalysis without being consumed itself. An electromagnetic reaction (short circuit) occurs, breaking down the commitments present, such as micro-organisms, dirt, and VOCs, without harming health and the environment.

## How photocatalysis works in practice

How did we put the idea of photocatalysis into practice with the development of Foresta purifying paint?

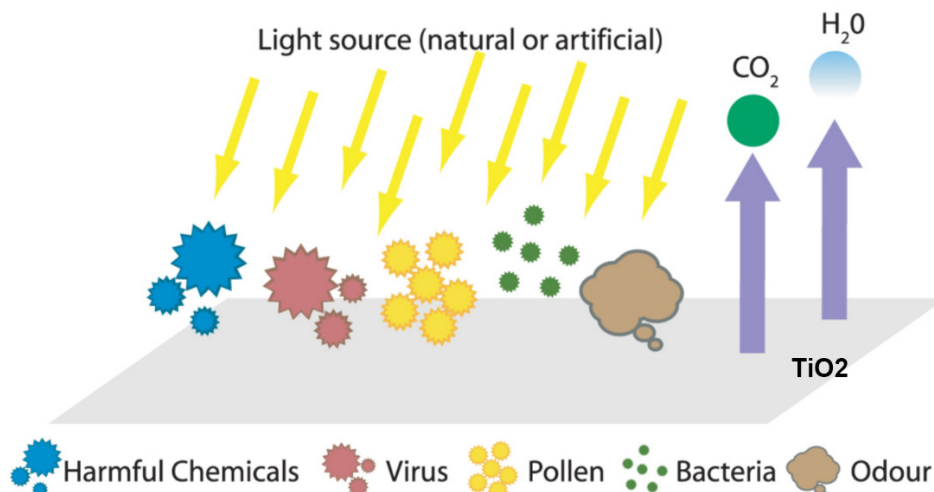
One of the important ingredients in paint is... Titanium Dioxide. This raw material has powerful "whitening" properties which results in enormous coverage and masking power.

Using nanotechnology to trigger a reaction between (sun)light, added silver salts and Titanium Dioxide, a continuous photocatalysis process is created, which breaks down micro-organisms, dirt and hazardous volatiles and converts them into water and CO<sub>2</sub>. We developed a blocking system, SARC, to prevent the active photocatalysis process from also discolouring the paint.

This system guarantees the colourfastness of the paint without negatively affecting its air-purifying character. The result is a **revolutionary and unique organic paint** whose properties make environments, especially indoors, **healthier** by purifying the air **on a daily basis**, thus improving the quality of life.

Painting with Foresta Purifying paint ensures a sustainable and safe environment and is recommended for use in all structures where strong action against micro-organisms is required, such as homes, schools, creches, hospitals, residential complexes, offices and public places, flats, villas and hotels.

This is how it works:



**NANO**  
future technologies



## APPLICATION

FORESTA is ready-to-use and guarantees perfect adhesion to walls and plaster-board. Its high Titanium Dioxide content provides great covering and masking power.

**New interior surfaces:** ensure that the substrate is dry and cured. Fill any holes or unevennesses with a suitable filler, sand and clean the surfaces. Then apply a coat of transparent fixative. After 4-6 hours you can apply a coat of FORESTA. If necessary, apply a second coat after 4 hours.

**Painted indoor surfaces with substrates in good condition:** apply two coats of FORESTA.

**Painted indoor surfaces with flaking substrates:** remove flaking residues of old paint and fill and smooth any unevenness with a wall filler, sand and clean the surfaces. Then, to prevent uneven suction of the substrate, apply a coat of transparent fixative. After 4-6 hours you can apply a coat of FORESTA. If necessary, apply a second coat after 4 hours.

FORESTA can be applied with a brush, roller or airless spray system.

## COLOURS

We have developed a sophisticated colour palette for FORESTA.

We offer a range of 130 Autentico colours, plus all light and mid tones from the RAL and NCS colour ranges.

Due to the photocatalytic properties and the concentrate Titanium Dioxide, very dark colours are not possible. The air-purifying effect of Foresta starts immediately after application and ensures the daily intensive cleaning of the room in which you have painted with FORESTA.

Technical data sheet available on request.

Foresta air-purifying paint is available in 4 and 10 litre buckets. Average consumption is 13 m<sup>2</sup> per litre per coat. Foresta air-purifying paint is an organic washable paint (scrub class 1 acc. ISO 11998) and is highly "breathable" (>150 gr/m<sup>2</sup> in 24 hours acc. ISO 7783-2)

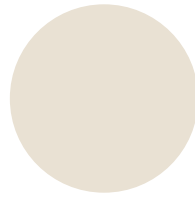
A selection of popular colours:



RAL 9010



RAL 9016



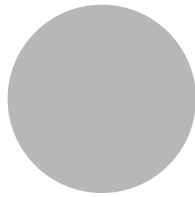
RAL 9001



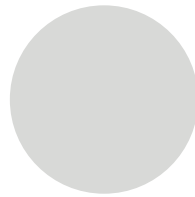
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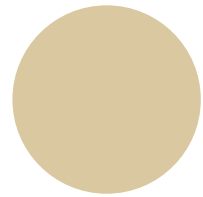
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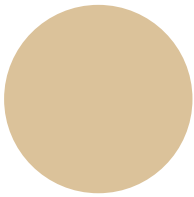
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RAL 9018



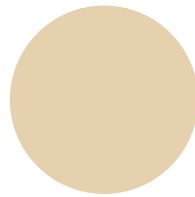
RAL 1000



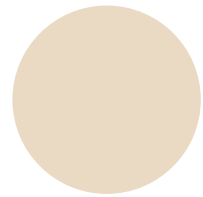
RAL 1001



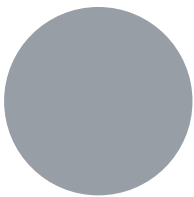
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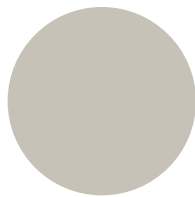
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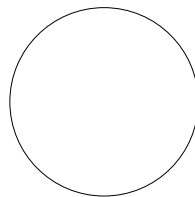
RAL 1015



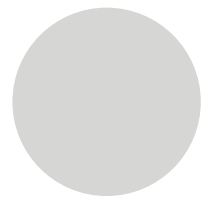
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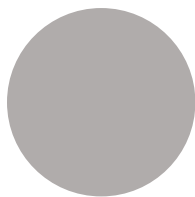
RAL 7032



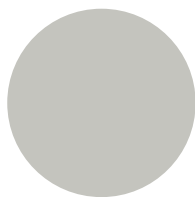
Bianco



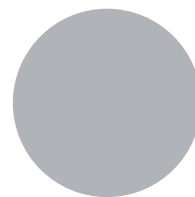
RAL 7035



RAL 7036



RAL 7038



RAL 7040

## APPLICATION AREAS:

### At home: your home is your castle



You should feel safe at home.

However, older homes might suffer from damp issues with the formation of dangerous moulds as a result.

Newer well-insulated homes often have the same issues due to a lack of ventilation or other causes.

This enclosed pollution system can lead to the "sick building syndrome" where bacteria and viruses take over and an unhealthy environment as a result.

Foresta Purifying Paint has a powerful built-in system that actively neutralizes bacteria, viruses, moulds and dangerous substances such as Formaldehyde.

Foresta purifies the air and turns your home into the safe place it should be.

On top of that, painting with Foresta is very cost-effective, and with a well-balanced colour palette, your home will feel completely refreshed. The purifying process begins immediately and continues for years to come.





## APPLICATION AREAS:

### At work: care for your employees



Of course you want your members of staff to feel safe at work.

But, with employees working closely together, meeting visitors, receiving parcels and goods, it may become a busy beehive.

Recent years have proven that interior environmental pollution increases the risk of transmittable diseases.

The risk of commercial disruption is something you want to avoid.

Foresta Purifying Paint has a powerful built-in system that actively neutralizes bacteria, viruses, moulds and dangerous substances such as Formaldehyde.

Foresta purifies the air and turns your workspaces into the safe place it should be. Your staff will appreciate that you care!

On top of that, painting with Foresta is very cost-effective, The purifying process begins immediately and continues for years to come.



## APPLICATION AREAS:

### Hotels & Restaurants: Heavy traffic areas must stay safe



Running a hotel or restaurant means you have to manage a lot of human traffic. Whether you receive a group to participate in a conference or manage the flow of visitors to your hotel or restaurant daily, heavy traffic means a risk of contamination.

Your customers will appreciate seeing you do everything you can to offer a safe stay.

Moreover, you are working to improve the eco-footprint of your hotel or restaurant too.

Foresta Purifying Paint has a powerful built-in system that actively neutralizes bacteria, viruses, moulds and dangerous substances such as Formaldehyde.

Foresta purifies the air and turns your hotel or restaurant into the safe place it should be. Your customers and your staff will appreciate that you care!

Painting with Foresta is very cost-effective. The purifying process begins immediately and continues for years to come.



## APPLICATION AREAS:

**For (Eco) Builders:** Sustainable, but fast and reliable.



Foresta is the perfect choice for painting prefab units in a factory or on-site.

With a viscosity balanced with modern spraying equipment, no VOC\* releases, high yields and packaging made for high-volume output, Foresta has everything it takes to withstand high production flows.


The Eco footprint is outstanding, the same is the large volume pricing.

Foresta Purifying Paint has a powerful built-in system that actively neutralizes bacteria, viruses, moulds and dangerous substances such as Formaldehyde.

Foresta purifies the air and turns your prefab product into the safe place that you want to offer.

Painting with Foresta is very cost-effective. The purifying process begins immediately and continues for years to come.





More information can be found on our website

[Forestapaint.com](http://Forestapaint.com)

You can call us or e-mail:

Phone:

United Kingdom: +44(0)203 4550312

Netherlands: +31(0)202146076

Belgium: +32(0)50150010

United States +1(0)212933980

Canada +1(0)6474960249

Email: [info@forestapaint.com](mailto:info@forestapaint.com)