

FAQS ORGANOID® DECORATIVE AND ACOUSTIC COATINGS

What are Organoid® Decorative Coatings?

Organoid® Decorative Coatings are made of natural raw materials. These are applied on HPL (High Pressure Laminate) support boards. The complex manufacturing process is supported also by manual labor. Thus they largely retain most of their natural properties and allow a multi-sensorial experience.

What are Organoid® Acoustic Coatings?

Organoid® Acoustic Coatings are acoustically effective support boards (according to the Helmholtz principle) with organoid surfaces that are acoustically transparent due to that special treatment.

How sustainable are the Organoid® Decorative and Acoustic Coatings and where are they produced?

In our plant, in the heart of the Alps, we adopt ecological and sustainable production techniques. This starts with the supply of 100% green electricity and ends with our binders that are up to 100 % biodegradable and of course free of biocides, plasticizers and solvents. We only use natural and authentic source materials that are normally not processed in the conventional manufacturing. We also pay attention to the impact of transportations privileging the shortest transfer distances in our region.

Where can Organoid® Decorative Coatings be applied?

Organoid® Decorative Coatings are designed for vertical light-duty indoor applications or roofed outdoor applications, e.g. wall paneling or furniture fronts. Organoid® Decorative Coatings are delivered untreated and have different abrasion and water resistance depending on the raw material. By coating, these factors can be raised.

Organoid® Decorative Coatings should be protected from prolonged moisture/humidity and therefore should not be applied in bathrooms or steam baths with high air flow rates to prevent premature aging, swelling and shrinking and the decrease of the fibers' natural scents.

Is there a minimum order quantity and how big is the effective usable area?

Our minimum order is 1 panel (format 3050x1320mm, that is 4.026 square meters). For production reasons, the border is all around on a width of 0 - 20mm or only partially covered with organoid materials. Depending on the decorative, is necessary a trimming of about 20mm. In the rough textured surfaces such as **LAWENDL**, **PFEFFARMINZ** and **RINDÄ** must be trimmed slightly wider, depending on your personal assessment.

How about the thickness of the sheets?

Depending on the applied coating material the thickness of support board and coating is variable.

The standard thickness of HPL support boards is 1,1 mm. Depending on the applied raw material we reserve the right for alterations. Heavy coatings - like ROASA and RINDÄ - effect a 1,2mm support board to receive more stability. Light coatings may effect a 1,0mm support board. The coatings **KORNBLUAMA BLAU/ROAT/PINCK** and **RITRSCHPORN** are applied on 0,8mm support boards.

We provide a detailed overview in the download area of our homepage.



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Can the sheets be customized?

Organoid® Decorative Coatings are produced with a size of 3050x1320mm (according to EN 438).

We can produce unique surfaces from all biogenic materials using different techniques that are customized to the needs of customers and designers. Therefore also other support boards like CPL from 0,5mm, "emission free" HPLs, papers, nets, leather, plywood and more can be used.

What fire protection class do the products reach?

For fire safety reasons, we use standard flame-retardant phenolic resin bonded laminated boards with grinded back. As a first decorative WILDSPITZE has been tested and classified in accordance with EN 13501-1 according to B s1 d0. Further tests for other decors are in preparation.

What is the recommended bending radius of Organoid® Decorative Coatings?

Our panels allow different bending radii, depending on the coating thickness (0.05 mm to 3.5 mm) and on the material. All can be processed with a minimum bend radius of 350mm. In some products, such as BAMBOART, ROSCHT and KAKAU, this can also be much lower.

Why do the sheets crumble?

Organoid® materials breathe – they well and shrink at changes of humidity. Therefore single stalks or other parts may break away from the surface.

What is the product life expectancy of Organoid® Decorative Coatings?

Within normal climatic conditions the product life expectancy of our Organoid® Decorative Coatings is comparable with the one of a wood chipboard. Some surfaces/coatings, especially those which contain chlorophyll, are subject to a natural aging process, e.g. through UV light. To reduce this effect we use a light stabilizer agent. For higher UV protection, the surface can be provided with additional light-stability agents.

May varnishing protect the coatings from scratches?

For increased protection against moisture and scratches the surface can be painted, oiled, waxed, impregnated or used under glass. Some of the natural raw materials contain oils and fats (especially hemp nut shells for the decor **HONF**). In these cases the coating is not or hardly possible. Basically, good results were achieved with acrylic paints. Preliminary tests on samples are always recommended.

How long does a coating scent?

Organoid® products are made from natural materials and they largely maintain all the natural properties. Some materials have only a light odor (eg. **SKELETTBLATTLA, ROSCHT, WOLLÄ**), others a very intense and long-lasting scent. The fragrance intensity decreases with time continuously, but can be refreshed by wetting and rubbing again. In **ROASA** we expect a fragrance release over a period of about 20 years. The intensity of the fragrance strongly depends on the processing temperature, the change of air and humidity variations, so that characteristic can vary.

The fragrances of decorative coatings of Organoid have a totally natural and no added fragrances or artificial flavors.

In particular, when using decorative coatings strongly scented, you may well perceive the characteristics of various fragrances. The intensity of scents can be significantly reduced due to the use of paint coating on the surface.

May organoid sheets trigger allergies?

The most common allergy triggers birch leaves (coating **BIRKÄ**) and hay (coating **WILDSPITZE** and variations) were tested and no emissions of allergy triggers were detected in the final product. A certificate about this test can be found in our download area of our homepage.

Is this material suitable for human consumption?

Organoid® Decorative Coatings are not suitable for human and animals consumption, also without a carrier material.

It is not excluded that individual particles may dissolve from the surface - especially on uneven surfaces (eg. **PFEFFARMINZ, LAWENDL, RINDÄ** and **ROASA**).

Is every sheet exactly the same?

During production we are monitoring 40 parameters to provide a very high quality and consistent appearance.

Due to the natural essence of raw materials and processes of manufacturing differences in color and composition may occur between production runs. This also depends on various factors such as temperature and humidity.

How will the panels be delivered?

Depending on the decorative coating and size of your order we deliver flat in a sturdy wooden box or rolled in a cardboard box on a pallet. Each plate is protected by a release paper that has to be used for pressing. (see below).

The dimension of the cardboard box is 720x720x1350mm, the carton is fixed on the wooden pallet with reusable straps.

How do I store the sheets?

Our products may only be stored in closed, dry and well-tempered rooms, in a lying position and protected from light.

Pay attention to storage temperatures around 20°C (68°F) at a relative humidity of 45-65%.

At temperatures below 10°C (50°F) the vanillin of **WANILLÄ** coating can crystallize and form a white layer. Again at room temperature this layer will shortly disappear.

Stored surfaces can also be a retreat for insects and rodents that can nestle in the structured surface. Therefore the storage has to be in a protected and closed room, but ideally with a circulating ventilation.

An over-pack in closed PE film preserves the aroma characteristics, but also increases the risk of mold infestation, which can occur at high humidity, poor ventilation and temperature changes.

How should the sheets be processed?

Normally the Organoid® Decorative Coatings are applied on phenolic resin bond support boards and can be applied on many different layers. Organoid® Decorative Coatings can be processed like normal HPL.

While processing a lower feed rate and a higher rotational speed should be adjusted depending on the used material.

All safety and handling instructions for laminates must be followed.

Handling of Organoid® Decorative Coatings requires increased attention and processing must only be done by qualified personal that is experienced with sensitive and high quality materials.

During the processing of laminates dust is produced which - together with other organic parts - may cause irritations to eyes, respiratory system and skin.

Long-term damages could not be detected if the dust concentration at workplaces was within the legal limits. Workplaces have to be ventilated. We recommend the use of suitable breathing masks and protective gloves (due to sharp edges of laminates).

Are there any pressing guidelines?

Before fitting the boards they should be stored together with a distortion board or veneer for 5 to 10 days for acclimatization. The backside of the sheet has to be checked for pollution (rest of material, oil/fat) and has to be cleaned or degreased with a suited tool.

Organoid raw materials are graded and handled carefully. But it is possible that in very few cases little insects, stones and other foreign parts are concluded.

If the sheets are bond with another support board the pressing temperature should not exceed 60°C (140°F). Use release paper and the provided textile (if requested) as a release agent to contact surfaces, so that the coating will not be damaged. After pressing let the sheet cool down to room temperature before removing the release paper and performing further operations.

Organoid® Decorative Coatings and panels consist of natural material that swells and shrinks due to changing humidity. For a certain balanced board set-up we recommend the usage of the same coating on both sides of the board to avoid distortion.

We recommend the usage of the delivered backing sheet/balancing panel (surfaces brown ground), the usage of a plywood (minimum thickness 18mm) and a stiffening substructure on all accounts. Please pay attention to suitable joints and distances from the wall.

Organoid® Decorative Coatings can be bonded on massive walls or metallic surfaces just as any normal HPL. Apply accordingly to relevant information.

How can Organoid® Coatings be cleaned?

All Organoid® Coatings can be wiped with gentle pressure and a suitable duster. Depending on porosity and structure of the surface the duster can slightly be moistened. Abrasive cleaning agents (e.g. abrasive power), detergents, thinners and other chemicals must not be used.

How do Organoid Acoustic Coatings act onto my space?

Human hearing reacts mainly to frequencies between 125 and 4000 Hz. Human speech takes place in this frequency range. Organoid Acoustic Coatings reduce the reverberation time by sound absorption over the entire frequency spectrum. This makes the ambient sound drier and clearer. Especially annoying initial reflections from the walls are subjected to targeted dampening by absorbers.

Are the modules suitable for every room, independent of its size and geometry?

Yes. Our Acoustic Coatings can be used in any room. The quantity and the type of the acoustic measures are determined by the room and its use purpose. For example, acoustical asymmetries in a room can be compensated by targeted selection and placement of our Acoustic Coatings to create the best possible audiophile environment, to increase speech intelligibility, or to improve the acoustic properties.



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What is the difference between the Slot Absorber, the Absorber Panel, and the Picture Absorber?

The **Organoid Slot Absorber** is a tongue-and-groove panel permitting acoustically effective facing shells without visible horizontal joints. This panel can be adjusted accurately in its effectiveness by defined acoustic processing.

With the not perforated edge area for machining of the face side, forming of edges, or milling for fittings or installations for further processing, the **Absorber Panel** with a size of 2,970x1,200mm is suited ideally for example as partition element, door paneling, or box front.

Our finished product **Organoid Picture Absorber** as a wall element only has to be unpacked and hanged. Depending on the mounting surface, the standard installation is invisible via screws and a hanging fitting. As ceiling elements or acoustic sails, the picture absorber modules are fixed with a steplessly adjustable rope suspension on a viable ceiling construction and are positioned at the desired height.

How large are the individual elements of the Organoid Acoustic Coatings?

The size of the **Slot Absorbers** is 2,972x192mm and the thickness is ca. 17mm, depending on the coating.

The **Absorber Panels** are available in the dimensions of 2,970x1,200mm.

The **Picture Absorbers** have a depth of 70mm and are available in the sizes Small (610x610mm), Medium (1,060x305mm), and Large (1,060x610mm).

How are the Picture Absorbers constructed?

The acoustically transparent coatings **WILDSPITZE MARGERITTA**, **WILDSPITZE ROASA**, **WILDSPITZE LAWENDL** and **WILDSPITZE WANILLÄ** are applied on a perforated acoustic panel, are filled with sheep's wool as acoustic dampening, and are closed on the rear with flax fleece.

I live in rented rooms. Can I still use acoustic coatings?

Yes. The Organoid Picture Absorbers can be installed without problems in any environment like a picture with a hanging fitting to improve the room acoustics.

The Slot Absorbers and Absorber Panels also can be designed as free-standing acoustic facing shells. For inquiries, please contact us at acoustic@organoids.at.

Important final remarks

The variety and naturalness of the used materials as well as the different conditions on building sites and during processing cannot be checked and affected from our part. The quality and functionality of your work depends on your competent judgement and use of the products. Perform preliminary tests on samples in case of doubt or get expert advice for application technology.

Relevant changes in technical and commercial progress reserved. This information describes the quality of our products and services and does not represent a guarantee. Performance of the product(s) described herein should be verified by testing and carried out only by qualified experts.

The data presented in this brochure are in accordance with the present state of our knowledge, but do not absolve the user from careful handling and proper usage.

These FAQs supersede all previous handling and maintenance guidelines.



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All information in this document reflects our current knowledge and is intended to inform customers about our products and possible applications for them. Errors and printing errors may occur. We do not carry any liability for its contents.

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