Organoid® Manual

Version 1.1: November 2022

Recommendations for installing Organoid® on HPL

Installation as a decorative layer
in woodworking

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Storing Organoid® on HPL

We recommend unpacking the laminate from the cardboard box. Before use, the panels should be acclimatized to room-temperature with a counterbalance for approx. 1-3 days. Store in closed, dry rooms at a normal temperature (approx. 20°C, 30-60% relative air humidity). Store horizontally on an even surface, e.g. in a drawer system. Direct contact with the floor and/or sun must be avoided.

Please note

In case any anomalies and/or defects occur, Organoid® has to be contacted in written form immediately. Please check before installation if the delivery has any anomalies and/or defects.

Natural surfaces by Organoid® are made from natural plant fibres, therefore individual products of the same type may vary in colour, smell, or texture.
Allow for the dimensions of the surfaces to vary up to +/- 2%, as they are unavoidable from a technical point of view. Small deviations due to these biological properties are therefore not a reason for complaint or warranty claims.

Processing as a decorative layer in woodworking

Cut

For cutting engineered wood, commonly used wood working machinery can be used. Panel saws, table saws, hand-held circular saws, jigsaws, but also CNC-milling. The usual principles and precautions apply, just like in working with any other engineered wood or laminate.
Lower feed rates and higher rotational speed are recommended for machine processing.

Processing

Natural surfaces on phenolic resin high pressure laminates and be used and processed like normal HPL-panels and pe attached to a number of different surfaces and backgrounds. Typical woodworking materials such as chipboard, MDF and HDF are compatible. When glued on solid walls or metal, a multitude of pre-trials should be conducted. The usual principles and precautions apply, just like in working with any other engineered wood or laminate.

Do not press at a temperature higher than 60°C and use the separating paper enclosed between the hot press and the surface to protect the natural qualities of the organic materials.

The back of the HPL needs to be checked for leftover materials or oils after processing and has to be cleaned carefully accordingly. Cut off 2 cm along the edges before processing, as the density of the natural material deviates due to the production process

Adhesion

- Checking the surface for anomalies and/or defects before processing
- Cut to the desired size
- Apply glue (e.g. white glue) evenly and completely onto the wood material, not on the non-woven. Adapt amount of glue to the surface, as the non-woven backings may take up the moisture, leading to glue stains. We recommend pre-trials before first using our products in any case.
- Apply glue vertically and horizontally using a roller.
- Put surface onto wood material and cover with included separating paper to avoid damaging the surface
- Do not press at temperatures higher than 60°C
- Take finished piece out of the hot press as quickly as possible and let cool evenly
- Cut off excess material or bend around the edges

Counter-balance

For an ideally balanced panel structure, we recommend a symmetrical structure, meaning using the same surface on the front and back. For tension equalisation, we recommend using a counter-balance with the same thickness as the HPL used for the surface (HPL 1.1 mm, sanded on both sides, for SKELETTBLATTLA HPL 0.8 mm).

Further criteria for warpage:

- Type of underground (MDF, chipboard, plywood etc.)
- Thickness of nderground panel
- Size of workpiece
- Moisture in wood
- Glue application
- Pressing temperature

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Final steps

Loosened natural fibre on the surface can be removed with a dry cloth or a brush.