

Product data sheet

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dekoart

art concept

Product Description

The name *dekoart – art concept* stands for a **decorative high pressure laminate (HPL) with hand painted decorative motives. The motives are created and painted by artists.** As defined in the product data sheet for *dekoplus*, core sheets impregnated with phenolic and/or melamine synthetic resins and a surface layer or layers impregnated with an aminoplast resin (mainly a melamine synthetic resin) are pressed together to a decorative high pressure laminate. The surface layer is a plain coloured paper melamine film in the products with the name *art concept*.

This plain coloured paper impregnated with a melamine synthetic resin is designed by artists using a special colour system. By using different painting techniques individual coloured motives are obtained which, depending on motive and surface structure, give a plastic depth. The eloquent motives with a flowing transfer from one colour to another and the play of the colour-changes from pastel to intensive can not be obtained using standard engraved cylinder printing methods.

The light fastness of the decorative surface is very high, reaching more than level 6 on the Standard (wool scale). Long exposure to moisture should be avoided.

Each sheet is in effect unique. The motives and the colours are not, as in the case of standard laminates, practically identical, but due to the individual painting techniques used, similar in their colours.

The variations on the plain coloured paper-melamine film or colour variations using the same motive-structures allow individually specified products with each individual application. Alone the motive "*Triangulum*" with 12 different alternative colours give some idea of the individual possibilities.

Backing sheet for *art concept*:

RS 16 GLA 008

This backing sheet is a plain white laminate with a smooth surface with no quality specifications.

Dimensions and Quality

All *art concept* sheets are delivered in the standard dimensions 2440 mm x 1220 mm.

The surface structures of *art concept* sheets are preferably in high gloss (HGL) or matt (MAT).

The tolerance limits for the dimensions along and across the sheets as required in EN 438 are:

- 0 mm and + 10 mm

The *art concept* sheets can be produced in thickness from 1.0 mm to 3.0 mm.

The standard thickness is 1.0 mm, giving a density of 1.7 kg/m².

The limits for variations in thickness are also governed by EN 438.

Nominal thickness	Maximum tolerances
0.6 – 1.0 mm	± 0.10 mm
> 1.0 – 2.0 mm	± 0.15 mm
> 2.0 – 2.5 mm	± 0.18 mm
> 2.5 – 3.0 mm	± 0.20 mm

If thicker sheets of *art concept* are required, direct contact with **Dekodur®** is advisable.

Behaviour in case of fire – the standard quality of *art concept* is classified as B2 when tested according to DIN 4102. For *art concept* sheets in the quality “flame retardant” a direct contact with **Dekodur®** is advised.

A protective surface foil is absolutely necessary.

All *art concept* sheets are available in standard quality only.

Application and Processing

Art concept sheets are intended for use as decorative vertical surfaces in interior application, also for surfaces which are not exposed to heavy wear.

Typical applications are: Wall cladding, ceiling cladding, home furniture, hotel and restaurant furniture, shelve cladding, signs for shops and firms, counters and displays in shops, surfacing for doors and doorframes, shipbuilding and coach fittings etc.

For use on surfaces exposed to heavy wear, it is recommended that the surface of the *art concept* sheet should be protected by a sheet of glass or similar material.

The *art concept* laminates can be sawed, routed, and drilled using carbide tipped tools.

Suitable glues for bonding *art concept* laminates:

dispersion glues (PVAc)
condensation resin glues (Urea resin)
contact glues
2 component glues
hot melt glues

When dispersion glues (PVAc) or condensation resins are used for bonding a gluespread of 100 – 150 g/m² bar is necessary.

The press temperature should lie between 60 – 80 °C. The higher the press temperature, the greater the risk of warping. When using contact glues or hot melt glues, the manufacturer's instructions should be followed.

With compound elements, a symmetric construction is necessary. This is obtained by the use of a suitable balancing sheet bonded to the reverse side. A flat element can be obtained by using a sheet of the same type in 2nd quality or a blancing sheet RS 16 HGL 008.

Cleaning and Maintenance

Cleaning the surface is best carried out using a clean cloth, a soft moist sponge, or a soft brush. Water with washing powder or soap can be used. A dry cloth or paper can be used to dry the surface.

Abrasive cleaners, acids or alkalise should never be used.

Storage

The *art concept* sheets should be stored in a closed room with a temperature of 18-25°C and 50-60% relative humidity. Furthermore, they have to be stored full-laminar and horizontally with a distance of 200 mm to the ground.

The sheets

- are to be protected from moisture
- should not be exposed to direct sunlight
- should not be stored in a warm-air-stream

Should horizontal storage not be possible a skew of 80°, with the surface being entirely supported by a fully covering back-support, is recommended.

Waste Disposal

Art concept waste can be **burnt** in officially accepted incinerators.

Art concept can also be disposed of in landfills in accordance with the local regulations.

The German authorities classify high pressure laminate waste as “other hardened plastic waste material”, which means that it is similar to household waste.

Should you have any further questions, please do not hesitate to contact our service department. If you need samples you can order these in the form of chains, A5 or A4 from Dekodur®.