



Technical Data Sheet



[Z] DecoTec® 5434 TopOil BioDeckingProtectX

Product Description

Product Type

Natural wood oil for outdoors

- » Excellent care effect through deep penetration into the wood
- » High solid
- » Highly weather-resistant
- » Environmentally-friendly natural wood oil
- » Very good UV-protection
- » Protects the wood ideally and maintains its natural look
- » Makes the wooden surface dirt- and water-repellent
- » Film preservatives inside
- » Very fast drying
- » Intermediate- and top coat in one product

Area of Application

Protection and decorative finishing for non-dimensionally stable wooden components without earth contact in the outside area, especially recommended for terraces and other, universal, horizontal wooden areas in the outside area.

Timbers with high levels of resin and water-soluble ingredients, as well as knots can cause discoloration of the coating. Knots can cause reduction in adhesion. Furthermore, levels of resin and water-soluble ingredients in the substrate can reduce the absorption/covering of water-based coatings on the substrate. Resinous pores are not to be classified as a coating defect.

Technical Data

Base of Binder	Natural oil
Pigment	Strong weather-resistant and lightfast inorganic and organic colored pigments
Active Ingredient	0,1 - 0,25 % terbutryn 0,1 - 0,25 % octhilineone (ISO)
Color	Color-Line Nature and special colors based on [Z] DecoTec® 5434 Base DEL. Integrated into the Berger-Zobel Color Mixing System. Color of coating structure results through the 2-time application of the [Z] DecoTec® 5434. Color can be influenced by timber-species, -quality, -humidity and processing conditions.

Processing Instructions

Surface Pretreatment

- » Sand the wood to be oiled with grain size 120.
- » Water the entire wood surface.
- » Recommendation: Allow new patio wood to weather for 2 weeks before painting. Carefully clean older patios with water and let them dry before applying a care coat. If necessary, sand rough areas with grain size 120.

Application Method

Spraying, Rolling, Brushing



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Spraying

Spraying process	Nozzle [mm]	Pressure [bar]	Atomiser [bar]
Airless / Airmix	0,18 – 0,23	50 – 80	0 – 2,0
Low Pressure Air Spraying	1,0 – 1,5	2,0 – 2,5.	./.

» Can be sprayed up to a maximum wet-film thickness of 100 µm*. After approx. 20 minutes drying time, you have to equalise the oil evenly. Avoid thick layers.

*Depending on processing conditions, the maximum wet-film thickness may be less in individual cases! The maximum wet film thickness to be expected for standing surfaces will be lower than for lying surfaces.

» Note the special information under point: Additional informations

Brushing, Rolling

» Apply evenly with a brush or surface brush until the fiber saturation. After approx. 20 minutes drying time, you have to equalise the oil evenly. Avoid thick layers.

Ready to use

» Substrate must be dry, free of dust and grease.

» Wood moisture max. 20%

» Approx. 20 °C for substrate, material und environment, approx. 50 % relative air humidity.

» Do not process below 15 °C or more than 30 °C.

» Stir material before use; avoid air inclusion.

» To avoid skin formation, always keep containers tightly closed.

» To remove any paint-particles, that may have formed, filter the paint with a sieve, mesh size 125 µm (e.g. quick sieve).

» [Z] DecoTec® 5433 can be applied on the raw wood or on wood, impregnated with [Z] DecoTec® 5110 or [Z] ZowoTec® 118

» Usually, the wood oil is applied in two steps. Take care for the drying time between the steps.

» Protect freshly painted wood from rain.

» Do not paint in the direct sunlight.

» Apply evenly with a brush or surface brush until the fiber saturation. Excess oil after approx. 20 min. remove with a cloth, avoid layer formation.

» The protection of the wood is to be ensured by a recurring maintenance order from [Z] DecoTec® 5434, depending on the load and local climatic conditions. In general, one coat of care is sufficient within 1-3 years.

For technical reasons, colored versions have increased weather-resistance. Colorless and highly transparent coating systems require more maintenance.

» The protective effect and the color intensity are influenced by the number of layers.

» For garden furniture, the undyed version [Z] DecoTec® 5434 transparent is preferred.

30 - 70 ml / m² per work step, depending on the absorbency of the type of wood and the way of working

Can be worked over after approx. 12-16 h

Ingredient-rich types of wood can slow down the drying process. Drying time depends on applied quantity and ambient conditions. Low and high humidity retard drying. Always ensure adequate temperature and air exchange.

Immediately after use with [Z] ZowoPlast® 1130 SolvCleaner or White spirit.

Processing Viscosity

Processing Conditions

Product Consumption

Drying Time

(20 °C / 50% relative Air Humidity)

Cleaning of the Tools



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System Products

Impregnation	[Z] DecoTec® 5110 ImpregnationOil BioProtectX [Z] ZowoTec® 118 Impregnation ProtectX
Intermediate coat	[Z] DecoTec® 5434 TopOil BioDeckingProtectX
Top coat	[Z] DecoTec® 5434 TopOil BioDeckingProtectX

Steps of coatings exemplary. The respective technical data sheets of the products must be observed.

Standard Steps of Coating

1 x [Z] DecoTec® 5110 ImpregnationOil BioProtectX
2 x [Z] DecoTec® 5434 TopOil BioDeckingProtectX

Type of Packaging

10 Liters, further packaging units on request

Additional Information

Special Information	<ul style="list-style-type: none">» Perform a test coating. Check color before use. Subsequent claims cannot be considered. Wood ingredients can cause discoloration!» Use only one batch no. per layer and color tone!» Please observe Berger-Zobel steps of coating!» Wash hands and contaminated skin after use!» Change contaminated cloth as fast as possible» Moisten soaked rags, pads and other tools with water or in keep a lockable bucket and dispose of it in a fire-safe manner self-ignition hazard!» The product itself is not self-igniting!
Information for Spray Processing	<ul style="list-style-type: none">» Do not absorb vapours and dusts in the air, through your breath!» Vapours and dusts are able to self-ignition, note explosion protection!» Carry out regular cleaning / replacement of the exhaust air filter!
VOC-Labeling	EU-limit for the product (Cat. A/e): 400 g/l (2010) This product contains maximum < 400 g/l VOC
Minimum Shelf Life	24 months cool but free of frost in the closed original packaging.
Safety Instructions	Always read label and product information before use. Please observe the usual precautions during processing and storage. For safety-relevant data and instructions on disposal refer to the Material Safety Data Sheet.

All information provided is state of the art. Because of the large number of options for use and processing, however obligation and liability must be ruled out. With the appearance of new versions, previous editions lose their validity.