



THE BEST FOR YOUR WOOD.

Korasit[®] AS-0

1. Product description

Product approval	The product is approved in Germany in accordance with Regulation (EU) No. 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products (BPR authorisation).
Approval number	The approval number for Germany is: DE-0027893-08
Product type	Liquid, soluble, water-dilutable wood preservative concentrate. For wood treatment only, in accordance with the provided instructions.
Active ingredients	100 g contain: 14.00 g of coco alkyltrimethylammonium chloride (ATMAC/TMAC) 0.75 g of cyclohexylhydroxydiazene 1-oxide, potassium salt (K-HDO)
Effects of the product	Wood preservative for temporary, preventive protection of sawn timber and wooden pallets against blue stain fungi and wood-discolouring fungi.
Properties	• Easily soluble • Can be mixed quickly with water • Low odour, as concentrate and solution
Shades	The concentrate and solution have a colourless to slightly pink tint.
Container sizes	1050 kg

2. Technical data

Density	Approx. 1.06 g/cm ³ (at 20 °C)
pH value	Approx. 14.40 (at 25 °C)

3. Processing

Application

For the temporary, preventive protection of fresh sawn timber and wooden pallets against blue stain fungi and wood-discolouring fungi during drying, storage, or transport.

The protective treatment should be carried out immediately after the cutting in the factory. No adequate protective effect is achieved on wood already infested with fungi, as Korasit® AS-0 is a preventive rather than a curative protective agent. Logs should therefore be cut as soon as possible after felling and treated with Korasit® AS-0.

The application is carried out through fully automatic dipping or spray tunnel application (stationary, enclosed, and automated spray tunnel) by trained professional users in industrial use.

Application quantity

Application quantity: 3.6 - 8.5 g product/m². In the dipping process up to an amount of 13.5 g product/m² in a single, non-recurring application.

Application concentration

The required application amount depends on the desired protection duration, the type and quality of the wood, the local climatic conditions, and the storage and transport conditions. From this, the necessary solution concentration can be determined.

2.4 - 9 % (dipping process)

3.6 - 8.5 % (spray tunnel application)

The solution absorption in the dipping process is usually in the range of 100 - 150 ml/m², while the target solution absorption in the spraying process is 50 ml/m² (with spraying, uniform coverage of the entire wood surface must be ensured). Heat treatment according to ISPM 15 also significantly increases the susceptibility of fresh wood to mould and blue stain and must be taken into account when determining the solution concentration.

To adapt all aspects of processing to local conditions, such as wood type, storage, drying duration, or application concentration, we recommend seeking technical application advice. This is particularly true for woods intended for sea transport.

Immersion time

At least 20 seconds with complete wetting of all surfaces.

Preparation of the solution

Korasit® AS-0 can be mixed with water in any proportion. The solution must be prepared using an automatic dosing system (e.g. water-driven proportional dispensers).

Control of the solution concentration

The soaking concentration can be determined with the help of a refractometer (refractive index n_d^{20}).

n_d^{20}	1.3347	1.3351	1.3358	1.3365	1.3373
Conc. [%]	2.4%	3%	4%	5%	6%

A detailed table can be requested from us. This is always created for freshly prepared solutions. Wood constituents and other substances can affect the refractive index in soaking solutions. Determining the individual active ingredient contents is possible in the laboratory.

Usage restrictions

Wood intended for use in animal stables or paddock fences, or that could come into direct contact with food, feed, and livestock, must not be treated.

Material compatibility

In laboratory and technical pilot tests, 2-component epoxy resin coatings on mild steel showed sufficient compatibility with Korasit® AS-0 solutions. In general, due to the corrosive properties of aqueous solutions, a suitable coating should not be omitted.

Protect non-ferrous metals from direct contact with concentrate or solution.

4. Storage instructions for the protective agent

General instructions	Store only in the original container in a cool, dry and well-ventilated place, away from sources of ignition, heat or flames. Store locked up. Keep the product out of reach of children. Protect from direct sunlight. The regulations for the storage of water-polluting liquids must be observed, i.e. care must be taken to ensure that the wood preservative cannot enter the soil, groundwater, surface water or the sewage system. Application solutions must be collected and reused or disposed of as hazardous waste.
Storage temperature	The product must be stored frost-free. Storage temperature: between 5 °C and 30 °C.
Shelf life	At least 2 years when stored in a cool and dry place in the unopened original container.

5. Impregnated wood

Storage and processing	During the entire storage period in the impregnation plant, it must be ensured that no wood preservative components enter the soil. Recently treated wood must be stored under a roof and on a paved and impermeable ground, to prevent leaking dripping product residues from entering the ground, the sewage system, and bodies of water. Dripping product residues must be collected, disposed of properly, or returned to plant operation. The treated wood must be stored protected from rain at least until the wood surface is dry. Airy stacking is required to ensure rapid drying. Stacking battens (spacer timbers) must also be impregnated. The wood must be dry before further manual processing (e.g. unloading, moving). Suitable protective gloves (see safety data sheet) must be worn during subsequent manual processing of the treated wood.
Dry-to-touch time	Depending on the storage and weather conditions, at least 24 hours.
Appearance of the wood	Treated wood normally shows no change in colour. A temporary (temporary and lasting a few days), slight yellow colouration has been observed in single cases.

6. Special instructions

Instructions for use and warnings

Before use, read and understand all hazard and safety information in the Safety data sheet for Korasit® AS-O.

When using the product, the regulations applicable to occupational safety and accident prevention in particular must be observed in accordance with the labelling on the container.

The order of priority for protective measures prescribed in Article 6 of Directive 98/24/EC and respectively in Section 7 (4) of the German Hazardous Substances Regulation [GefStoffV], according to which technical and organisational protective measures must be given priority, must also be observed for the use of biocidal products. The personal protective equipment specified in the approval must therefore be used unless it can be replaced by technical and/or organisational measures. Wearing personal protective equipment must not be a permanent measure.

Observe the usual precautionary measures for handling wood preservatives. We recommend observing the information sheet "Merkblatt für den Umgang mit Holzschutzmitteln" from the association Deutsche Bauchemie, the protective guidelines BP 1081 (on the topic Preventive wood preservation: basic measures), BP 2083 (on the topic Application of wood preservatives in open systems) and BP 2084 (on the topic Application of wood preservatives in closed systems). Risk reduction measures apply without prejudice to the application of Council Directive 98/24/EC and other EU legislation on occupational health and safety measures by employers. Avoid contact with eyes and skin, as the concentrate causes severe burns.

Risk minimisation measures when using the dipping process

The biocidal product may only be used for fully automated dipping operations where all steps of treatment and drying are mechanised and no manual handling takes place, even if the treated articles are passed through the dip tank for dripping/drying and storage (unless they are already hand-dried prior to transport for storage). If necessary, the wooden objects to be treated must be fully secured before treatment and during the dipping process (e.g. using tension belts or clamping devices) and may only be handled manually once they are dry to the touch. The untreated wood may only be placed in the dip tank with a hoist. The following personal protective equipment is mandatory for the activities "connecting transfer lines", "dipping treatment" and "cleaning the dipping pool". This applies regardless of the application of Council Directive 98/24/EC and other EU legislation on occupational health and safety measures by employers:

- A suitable chemical protective suit (at least type 4, EN 14605) which is impermeable to the biocidal product (material polyethylene, e.g. Dupont - Tyvek Overall 600 Plus Type 4) must be worn.
- Chemical-resistant protective gloves that meet the requirements of the European standard EN 374 (see Safety data sheet for material) must be worn when handling the product.
- The operator must use new protective gloves for each application cycle.
- Face protection must be worn.
- Wear suitable safety shoes (EN 13832) when cleaning the dipping pool.

Instructions for use and warnings

Risk minimisation measures when using the Spraying process

The product may only be used with spray tunnel systems that have a device for the automated further transport of the freshly treated wood for automated stacking or into a drying system, so that manual contact with the freshly treated wood is avoided.

The following personal protective equipment is mandatory for the activities "connecting transfer lines", "spraying treatment" and "cleaning spray tunnel systems". This applies regardless of the application of Council Directive 98/24/EC and other EU legislation on occupational health and safety measures by employers:

- A suitable chemical protection suit (at least type 6, EN 13034) must be worn (material polypropylene, e.g. Dupont Tyvek Overall 400).

- Chemical-resistant protective gloves that meet the requirements of the European standard EN 374 (see Safety data sheet for material) must be worn when handling the product.

- Wearing respiratory protective equipment with a protection factor of 10 is mandatory. As a minimum, a fan-assisted air purification system with helmet/hood/mask (TH1/TM1) or a half/full face mask with particle filter P2 is required.

- It must be ensured that the application is carried out in areas with a ventilation of at least 10 h⁻¹.

Risk minimisation measures for further processing of freshly treated wood

The following personal protective equipment is prescribed for the mechanical processing of freshly treated wood before the end of the drying time. This applies regardless of the application of Council Directive 98/24/EC and other EU legislation on occupational health and safety measures by employers:

- A suitable chemical protection suit (at least type 6, EN 13034) must be worn (material polypropylene, e.g. Dupont Tyvek Overall 400).

- Chemical-resistant protective gloves that meet the requirements of the European standard EN 374 (see Safety data sheet for material) must be worn when handling the product.

- Wearing respiratory protective equipment with a protection factor of 10 is mandatory. As a minimum, a fan-assisted air purification system with helmet/hood/mask (TH1/TM1) or a half/full face mask with particle filter P2 is required.

In case of skin or eye contact, rinse immediately with plenty of water or rinse the eyes carefully with water for a few minutes. Take off immediately all contaminated clothing. Rinse skin with water.

The use of the wood preservative in a stationary system may only be carried out under a roof and over a collection tray, on an impermeable, hard ground. Excess protective agent and drip losses must be collected in the immediate vicinity of the plant and disposed of properly or returned to plant operation.

Use the product only in a well-ventilated area. Do not inhale dust and mist.

Do not eat, drink or smoke while working. After work, wash your face and hands carefully with water or clean them with a suitable cleaning agent.

Never pour solutions into eating or drinking vessels.

Do not wet plants.

**Instructions for use
and warnings**

With correct application of the Korasit® AS-O concentrate, blue stain and mould formation can be avoided. Wood is a natural product, and no guarantee can be given, as the probability of the growth of blue stain, mould and other wood-discolouring fungi depends primarily on general conditions such as the type of wood, wood quality, wood moisture, infestation pressure, storage conditions and the speed of wood drying. It is therefore strongly recommended that users regularly check the effectiveness of the protective agent treatment and seek technical advice if necessary.

Professional and industrial users generally require expertise in accordance with Section 15c of the German Ordinance on Hazardous Substances [GefStoffV].

Disposal

EWC/ German Waste catalogue regulation [AVV]: 03 02 05

This information and our technical application advice, whether verbal, in writing or through tests, reflect the current state of our knowledge. They are intended to provide information about our products and their possible applications and are therefore not intended to guarantee certain properties of the products or their suitability for a specific purpose and are not complete instructions for use. Nor do they constitute a guarantee of quality or durability. Any existing industrial property rights of third parties must be taken into account.

The application and processing of our products on the basis of our technical application advice is beyond our control and is the sole responsibility of the user. We are only liable for the consistent quality of our products in accordance with our General Terms and Conditions of Sale and Delivery as amended from time to time. The user is not exempt from checking the suitability and application possibilities for the intended purpose. The recipient of our product is responsible for observing existing laws and regulations. Use wood preservatives safely. Always read the labelling and product information before use.