



THE BEST FOR YOUR WOOD.

Korasit® NG 50

1. Product Description

Approval	Korasit® NG 50 has been evaluated according to the Biocidal Products Regulation (EU) No. 528/2012 and approved by the national competent authority.
Approval numbers	The country-specific approval numbers are stated on the label of the container.
Quality control	The product is subject to voluntary quality control by Materialprüfanstalt Brandenburg GmbH, Germany.
Product type	Water-soluble, liquid, fixing, heavy metal and boron-free wood preservative. Only for treatment of wood in accordance with the information available.
Active ingredients	100 g contains: 0.75 g Propiconazole (a.i.) 0.75 g Tebuconazole (a.i.) 1.25 g Permethrin (a.i.)
Effectiveness	Provides wood with preventive protection from wood-destroying insects (house longhorn beetle), wood rotting fungi and termites.
Properties	Easily soluble, rapidly miscible with water. Low-odour as a concentrate and solution.
Application	The wood preservative may be used in areas assigned to Use Classes 1, 2 or 3 in accordance EN 335. For load-bearing and/or reinforcing wooden components, e.g. trusses, wood constructions, supports. Also for non-load bearing wood in building construction.
Colour shade	The unstained Korasit® NG 50 is slightly yellowish as a concentrate and colourless as a solution. The concentrate is also available in the colours brown, yellow, grey and green.
Container sizes	25 kg 600 kg 1.000 kg
Density	Approx. 1.0 g/cm ³ (20 °C)
pH value	Concentrate: pH approx. 6–8
Durability	24 months

2. Dipping Treatment

Application method Automated / Manual Dipping in stationary systems

Application quantities

Automated / Manual Dipping	Without protection against termites	With protection against termites
Use Class 1	5.0 g/m ²	10.0 g/m ²
Use Class 2	7.4 g/m ²	10.0 g/m ²
Use Class 3 with topcoat	11.6 g/m ²	15.0 g/m ²
Use Class 3 without topcoat	30.0 g/m ²	30.0 g/m ²

We recommend the use of a minimum dilution of 2% (add 2.0 kg of Korasit® NG 50 to 98.0 l of water) and a maximum dilution of 20% (add 2.0 kg of Korasit® NG 50 to 8.0 l of water) to achieve the above-mentioned application quantities.

Instructions for use

The dilution of the concentrated products with water and transfer of the impregnation solutions to the dipping tank or bathing tray should be done automated by connecting lines - or manually (only allowed for manual dipping).

Korasit® NG 50 is approved for both automatic and manual dipping. Automatic dipping is a fully automated process; transport and handling of the timber (lowering into and lifting out of the dipping tank or bathing tray, transfer to the storage area where the wood is placed to dry) must be carried out using a fork-lift truck. During manual dipping, individual treatment steps are carried out manually by the employee (e.g. subsequent stacking of treated wood for drying, etc.).

Risk mitigation measures

Wear protective clothing (double coverall), gloves, eye and face protection as well as chemical resistant footwear (EN 13832) during mixing and loading of the concentrated products.

Wear gloves and protective clothing (double coverall) during the automatic dipping process when handling the treated timber and when maintaining the dipping tank or bath.

Wear gloves and protective overall (coated coverall) during manual dipping.

3. Vacuum Pressure Treatment

Application method

Vacuum pressure impregnation

Required quantities

Vacuum pressure impregnation	Without protection against termites	With protection against termites
Use Class 1	1.80 kg/m ³	
Use Class 2	3.70 kg/m ³	
Use Class 3	5.80 kg/m ³	

We recommend an application concentration of 1.0-6% in an aqueous solution. To receive the recommended dilutions, add 1.0 kg Korasit® NG 50 to 99.0 litres of water or 6.0 kg Korasit® NG 50 to 94.0 litres of water.

Instructions for use

The dilution of the concentrated products with water and the transfer of the impregnation solutions to the treatment vessels is done automated by connecting lines.

After the vacuum pressure impregnation process and, if necessary, a waiting period, the door of the vessel must be opened and the treated wood must be transferred using suitable equipment (forklift, pallet truck) to a storage area where it can be placed to dry.

Risk mitigation measures

Wear protective clothing (double coverall), gloves, eye and face protection as well as chemical resistant footwear (EN 13832) during mixing and loading of the concentrated products.

Wear gloves and protective clothing (double coverall) during the handling of the treated timber, contact with the treatment vessels and maintenance of the machinery.

4. General instructions for handling the product

Corrosion protection

Impregnation equipment made of normal steel is corroded much less by Korasit® NG 50 in the recommended solution concentrations than by water. The steel should be protected by a resistant paint or suitable coating. Please seek our technical advice for your application.

Preparing the impregnation solution

Add Korasit® NG 50 while stirring in the desired amount of water (see above). The warmer the water, the shorter the dissolving process. During impregnation, the solution temperature should not fall below +5 °C.

Checking the solution concentration

A refractometer can be used to determine the solution concentration (refractive index n_d^{20}).

Example of colourless solution:

Conc.	1%	1.5%	5%	6%	8%	10%	20%
n_d^{20}	1.3333	1.3336	1.3345	1.3348	1.3353	1.3359	1.3388

A detailed table can be requested from us. This is always compiled for freshly prepared solutions. Wood constituents and other substances may influence the refractive index in impregnating solutions. The content of the individual active substances can be determined in our laboratory.

Product change

In case of a product change, we recommend that you always seek our technical advice.

5. Treated wood

Colour

Korasit® NG 50 colourless treated wood does not show any change in colour shade. Impregnated wood with coloured solutions (brown, yellow, grey, green) shows the corresponding colour tone.

Storage

Freshly treated timber shall be stored after treatment under shelter or on impermeable hard standing, or both, to prevent direct losses to soil, sewer or water, and that any losses of the product shall be collected for reuse or disposal.

In addition, the wood should be re-dried in accordance with the state of the art (e.g. by airy storage, stacking battens, air movement, rapid drying) in order to prevent the development of wood-dwelling fungi (mold, blue stain), this despite the very good protection against wood-destroying organisms even at low input and application rates.

Properties

Treated wood should not be intended for uses involving contact with food, feed or livestock.

According to current knowledge, Korasit® NG 50-treated and dried wood shows no different corrosion behaviour towards iron, steel and glass than untreated wood.

Repainting

Treated wood can be overpainted with Koralan® and Koranol® products after fixation. We recommend that you make a trial application.

6. Special notes and legal requirements

Instructions for use and warnings

Before use, read all hazard and safety instructions in the safety data sheet for Korasit® NG 50!

Misuse may cause health problems and lead to environmental damage.
Do not use on wood that may come into direct contact with food, animal feed and livestock.
Avoid prolonged contact of pets, especially cats, with treated surfaces.

First aid measures

Description of first aid measures

General information: Change contaminated, saturated clothing. When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation: Remove casualty to fresh air and keep warm and at rest. Provide fresh air.

In case of skin contact: After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician.

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion: Do NOT induce vomiting. Rinse mouth thoroughly with water.

Self-protection of the first aider: First aider: Pay attention to self-protection!

Information to physician: Treatment: Treat symptomatically.

Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction. Causes serious eye damage.

Indication of any immediate medical attention and special treatment needed:
None

Protective measures: Use only in well-ventilated areas. Do not breathe gas/fumes/vapour/spray.

Pyrethroids and pyrethrines may cause paresthesia (burning and prickling of the skin without irritation). If symptoms persist: Get medical advice.

Accidental release measures

Personal precautions, protective equipment and emergency procedures: Take the precautions customary when handling chemicals. Use personal protection equipment.

Environmental precautions: Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

Methods and material for containment and cleaning up: Take up mechanically. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

Stability and reactivity:

Reactivity: No dangerous reactions known.

Chemical stability: The product is chemically stable under recommended conditions of storage, use and temperature.

Possibility of hazardous reactions: No dangerous reactions known.

Handling, storage and environmental protection

Application solutions must be collected and reused or disposed of as hazardous waste. They must not be released to soil, ground and surface water or any kind of sewer.

All industrial application processes must be carried out within a contained area situated on impermeable hard standing with bunding to prevent run-off and a recovery system in place (e.g. sump).

Keep/store only in the original container protected from frost and direct sunlight. Keep/store below 30°C. Protect containers against damage.

Waste disposal according to Directive 2008/98/EC, covering waste and dangerous waste. Consult the appropriate local waste disposal expert about waste disposal. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Handle contaminated packages in the same way as the substance itself.

Product code (D)

HSM-W 60

**EWC / German waste catalogue regulation
AVV (D)**

03 02 05 Other wood preservatives containing dangerous substances.

The above information has been compiled based on the latest development and application techniques and contains general advisory information. It describes our products and provides information about their application and processing.

As the application and processing of our products is beyond our control, we can only guarantee the consistent quality of our wood preservatives in accordance with our General Terms of Sale and Delivery. We recommend that you make use of our technical advice in case of doubt.

The "Technical data sheet for handling wood preservatives" as well as the guidelines on the "Correct impregnation of building timber - planning and implementing the preservation of wood using non-pressurised processes" issued by the German construction chemistry association, Deutsche Bauchemie e.V., Mainzer Landstraße 55, 60329 Frankfurt am Main, provide comprehensive and supplementary information on the handling of wood preservatives and the operation of impregnation systems with water-soluble wood preservatives. (Download at www.deutsche-bauchemie.de)