



THE BEST FOR YOUR WOOD.

# Korasit<sup>®</sup> KS2

Wood preservative for application as per DIN 68800-3



## 1. Product description

<b>National technical approval</b>	Deutsches Institut für Bautechnik, Berlin (German Institute for Building Technology, Berlin)
<b>Approval number</b>	Z-58.1-1666
<b>Test ratings</b>	P, Iv, W, E
<b>Quality monitoring</b>	Materialprüfanstalt Eberswalde (Materials Testing Institute, Eberswalde)
<b>Product</b>	Water-soluble, liquid, fixative, <b>chromate- and boron-free</b> wood preservative based on copper complex compounds and a highly effective quaternary ammonium compound. Only for wood treatment in accordance with these instructions.
<b>Ingredients</b>	100 g contain: 19.20 g of copper hydroxide carbonate 10.56 g of N, N-Didecyl-N methylpoly (oxyethyl) ammonium propionate
<b>Effect</b>	Protects wood from wood-destroying fungi ( <i>basidiomycetes</i> and soft-rot) and insects (house longhorn beetle, woodworm). Especially effective against <i>poria</i> fungi and proven to be effective against termites. Once fixed in the wood, resistant to leaching, weather resistant and tolerated well by plants.
<b>Properties</b>	<ul style="list-style-type: none"><li>• liquid</li><li>• water soluble</li><li>• fast-fixing</li><li>• highly effective</li></ul> <p>In its customary concentrations of 2% to 5%, the application solution is much less corrosive for iron than water. Incompatible with non-ferrous metals.</p>
<b>Area of application</b>	The wood preservative may be applied in areas assigned use classes 1, 2, 3 and 4 as per DIN 68800-3. For supporting and/or bracing timber components (e. g. wood constructions, props). Also for non-load bearing wood (e. g. formwork), and wood in gardening and landscaping (e. g. fences, palisades, stakes).
<b>Colour</b>	Concentrate and solution have a deep blue colour. Impregnated wood takes on an olive-green hue. The solution can be stained with Korasit <sup>®</sup> colour pastes.
<b>Container size</b>	1100 kg

## 2. Technical Data

Density	ca. 1.20 g/cm <sup>3</sup> (20 °C)
pH value	ca. 9-11 (3% working solution)

## 3. Processing

<b>Application quantities</b>	Pressure impregnation
<b>Charge application quantities</b>	Use Class 1-2: a minimum of 2.5 kilograms Korasit®KS2 per m <sup>3</sup> of wood Use Class 3: a minimum of 4.5 kilograms Korasit®KS2 per m <sup>3</sup> of wood Use Class 4: a minimum of 7.0 kilograms Korasit®KS2 per m <sup>3</sup> of wood

The usual application concentration is 2.4–3.5% in aqueous solution.

**Preparation of the impregnating solution** Stir Korasit®KS2 concentrate thoroughly for at least 10 minutes beforehand and also while removing it from the container. Then add the Korasit®KS2 to the desired amount of water (e.g. for a 3% solution, add 3 kg of Korasit®KS2 to 97 kg of water) while stirring.  
The temperature of the impregnating solution should not exceed 30 °C and not fall below 5 °C. In case of switching products, please be sure to ask for our technical advice.

**Monitoring the solution concentration** The impregnation concentration can be determined with a refractometer.

Concentration	2.0%	3.0%	4.0%	5.0%
Refractive index ( $n_d^{20}$ )	1.3350	1.3360	1.3369	1.3379

A detailed table is available from us upon request. This is always created for freshly prepared solutions. Wood constituents and other substances can affect the refractive index of impregnating solutions. The contents of individual ingredients can be determined in a laboratory.

**Fixation** Korasit®KS2 can be easily washed out of the wood immediately after impregnation. It is therefore important to protect the impregnated wood from rain initially. If the wood preservative is to be effective, the impregnated wood must be protected from direct weather exposure for a minimum of 2 days, and if the temperature is  $\leq 5$  °C, for a minimum of 7 days (not counting days with temperatures below freezing).  
Non-compliance will lead to partial elution, along with a possible pollution of the ground water or surface water, and a lack of stability of the wood due to the loss of preservative.

**Properties of the treated wood** Previous findings have shown that the corrosive effect for iron, steel and glass of wood which has been treated with Korasit®KS2 and dried as intended is not different from that of untreated wood.

## Aftercare

Overpainting with solvent-based varnish is possible after fixation. Preliminary tests are highly recommended because of the olive green colour of the impregnated wood.

We recommend a test application as a matter of principle for opaque coats or water-based varnish.

Subsequent dry cracks can reduce the effectiveness of the protection and must hence be re-treated.

## 4. Special Instructions

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word: Danger

Contains: 2-aminoethanol  
N, N-Didecyl-N-methylpoly (oxyethyl) ammonium propionate

#### Hazard statements:

H314 Causes severe skin burns and eye damage.  
H302+H312 Harmful if swallowed or in contact with skin.  
H335 May cause respiratory irritation.  
H410 Very toxic to aquatic life with long lasting effects.

#### Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P273 Avoid release to the environment.  
P310 Immediately call a POISON CENTER or doctor/ physician.  
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents/container to appropriate disposal.

### Instructions for use and warnings

Misuse can harm your health and the environment. Wear gloves and protective clothing for handling freshly impregnated wood, plus additional eye/face protection when handling Korasit®KS2 and its solutions. Wash skin areas that have come into contact with Korasit®KS2 and its solutions thoroughly with soap and water. Do not apply using doctor blade, spraying, dipping or immersion processes!

Keep out of the reach of children. Do not eat, drink or smoke while at work. Keep away from food, beverages and animal feed. In case of accident or if you feel unwell seek medical advice immediately (show the label where possible). Do not store in eating or drinking vessels or any other container intended for food or feed. Do not treat wood that is used for storing unpackaged food and feed with Korasit®KS2.

When handling Korasit®KS2 and its solutions, comply with the applicable accident prevention regulations and the generally accepted rules for safety, occupational health and hygiene. Comply with all applicable governmental regulations when operating impregnation equipment.

<b>Application restrictions</b>	Do not treat wood that is used for beehives, sauna facilities and greenhouses. Do not apply to plants or allow plants to come into contact with freshly impregnated wood. Please refer to the general building supervisory approval for more application restrictions.
<b>Storage and environmental protection</b>	Store and process in compliance with statutory provisions for preventing the pollution of ground and surface water, as well as air. Neither the salt concentrate nor the solutions must be permitted to reach the soil or sewage system. Ensure disposal of any unused remains or residues by specially licensed companies. Do not reuse packaging.  Only store Korasit®KS2 sealed in the original container.  At temperatures of ca. $\pm 0$ °C, container contents may crystallize. The crystals will dissolve again without doing any harm as soon as the temperature rises again.
<b>Water hazard class</b>	Salt as delivered condition: Water Hazard Classification 3 as per Administrative Regulation on Substances Hazardous to Water (German: VwVwS)
<b>Product Code</b>	HSM-W 60
<b>EAK / AVV</b>	03 02 01 - non-halogenated organic wood preservatives.

**The general building supervisory approval must be taken into account for application in accordance with DIN 68800-3. The approval can be requested from us or downloaded online at [www.kora-holzschutz.de](http://www.kora-holzschutz.de) ⇒ Products ⇒ Korasit ⇒ Korasit®KS2 as a file for downloading.**

**Above information has been compiled on the basis of the latest development and application technologies and includes general advice. It describes our products and provides information about their application and processing.**

**Since this use and processing is beyond our control, we can only accept liability for the consistent quality of our products in keeping with our general sales and delivery terms. If in doubt, please contact our technical consultants.**