

Wood preservation

impralit[®]-KDS

For vacuum-pressure impregnation. Use class 1- 4

Water-borne wood preservative to be applied in compliance with EN 335-1

Approval No.: Z-58.1-1361

Efficacy: Use class 1-4

Quality Control MPA, Brunswick

Tested according to European Standard	
DIN-EN	47
DIN-EN	73
DIN-EN	84
DIN-EN	113

Wood preservative without chromium for the prevention of attack by insects (including termites), soft rot and fungal decay. To be used on wood for use class 1-4.

To be applied in compliance with EN 335-1!

Pack size	Plastic containers of 1,000 litres (Contents: 1200 kg).
Colour on wood	Before and after fixation: green. Green, grey and brown colouring as well as intensive green colouring can be obtained by impralit [®] -colour pastes.
Protective action	Prevents attack by wood destroying insects including termites as well as soft rot and fungal decay. Temporary protection against blue stain and mould.
Presentation	Water-thinnable, coloured salt concentrate.
Active ingredients	205.3 g/kg (20.53 %) cupric carbonate – cupric hydroxide (1:1), 100.0 g/kg (10.00 %) didecylpolyoxethylammoniumborate, technical, 80.0 g/kg (8.00 %) boric acid.
Fields of application	impralit [®] -KDS is only to be used for treating wood according to the requirements of use class 1, 2, 3 and 4 as stipulated in EN 335-1. For wood under cover and in the open, above ground and in ground contact, e.g. poles, fencing, equipment for children's playgrounds, plant troughs, structural timber, façades, stabling, greenhouses, etc. Has been approved by the Australian Quarantine Authorities (AQIS) for the treatment of solid wood used for packing material (e.g. crates, pallets, etc.) against attack by Sirex and other woodboring insects. Retention: 6 kg /m ³ related to impregnated zone.

Restrictions	<p>Do not apply</p> <ul style="list-style-type: none"> • on wood which may come in direct contact with food and animal feeding stuffs. • on large-area structural components (ratio area/room the same as or larger than 0.2 (m²/m²) within or as boundary of living areas unless the interior surfaces are covered. • on large-area structural components in other living areas unless large-scale treatment is stipulated on constructional grounds. <p>Impregnation salts, colour pastes and wood components may easily be washed out of the wood immediately after application. Take appropriate measures to avoid soiling of adjacent elements. The washing off does not affect the efficacy of the wood preservative.</p> <p>The wood preservative contains biocides protecting structural timber against fungal decay and/or insect attack. Therefore, apply only if stipulated or necessary in specific cases. Misuse may also be harmful to health and to the environment.</p> <p>The technical information stated in this leaflet applies solely to wood that had not been chemically pre-treated. With wood pre-treated with other wood preservatives please ask for technical advice.</p>
Application method	<p>impralit®-KDS is only suitable for vacuum-pressure impregnation. It should never be applied by brushing, spraying in spraying tunnels, dipping or tank immersion.</p> <p>Open the plant when impregnation process is finished. Ensure sufficient ventilation before entering the plant.</p>
Absorption quantities	<p>Vacuum-pressure impregnation: (According to DIBT)</p> <p>Use class 1 and 2: 2.5 kg salt concentrate / m³ Use class 3: 3.0 kg salt concentrate / m³ Use class 4: 5.0 kg salt concentrate / m³</p> <p>The approval has to be available at application site! Please ask manufacturer for data sheet for handling of this wood preservative.</p>
Concentration of the solution	<p>The concentration is to be matched to absorption quantity, type and dimensions of wood.</p> <p><u>Recommended minimum concentration in compliance with RAL:</u> Pine: 1.4 – 2.0 % aqueous solution Spruce: 1.7 – 2.5 % aqueous solution</p> <p>At concentrations exceeding 1.3 % solutions of impralit®-KDS offer excellent protection against corrosion. Therefore, we recommend not to use solutions at lower concentrations in order to avoid rust formation.</p>
Preparation of the solution	<p>impralit®-KDS can be mixed with water in any proportion. A solution of 2 % is obtained by stirring 2 kg of impralit®-KDS into 98 litres of water. A temporary forming of foam is possible.</p>
Control of the solution	<p>Check concentration with hydrometer. This instrument, together with density tables can be provided upon request.</p>
Compatibility with other solutions	<p>impralit®-KDS and its solutions are not compatible with most of the commercial wood preservative salts. Please ask for technical advice in each case.</p>

Fixation	<p>impralit®-KDS may easily be washed out of the wood immediately after application. For the efficacy of the wood preservative it is essential that the treated wood is stored protected from weathering for at least 2 days, with temperatures $\leq 5^{\circ}\text{C}$ for at least 7 days.</p> <p>Wood treated with impralit®-KDS is only to be used for use class 3 and 4 if care has been taken that components of the wood preservative are not leached out and do not seep into the soil, water or drainage channels. The strict observance of these regulations is for user's responsibility.</p>
Density	Approx. 1.27 g/cm^3 .
Odour	Mild odour when opening the impregnation plant, the treated timber is odourless when dry.
Overpainting	After drying, the treated timber (wood moisture less than 15 %) can be painted with water-borne wood stains such as profilan®-fina or profilan®-top. In view of the differences in behaviour and the large number of commercially available products a general advice cannot be given. We advise a trial coat.
Special advice	<p>Do not spray plants. Avoid contact of plants with recently impregnated wood.</p> <p>Micro-organisms which may occasionally occur in solutions of impralit®-KDS can be eliminated by adding the water-dilutable concentrate impralit®-Additiv TK.</p>
Performance of wood treatment	<p>The approval has to be available at application site! Please ask manufacturer for the approval of this wood preservative.</p> <p>Treatment with this wood preservative only to be carried out by professionals.</p>
GHS regulations	Signal word: Danger; hazard pictograms: Health hazard, corrosion, environment, exclamation mark.
Hazard/ Precautionary statements	<p>H360FD May damage fertility. May damage the unborn child. H314 Causes severe skin burns and eye damage. H410 Very toxic to aquatic life with long lasting effects. H302 Harmful if swallowed. H312 Harmful in contact with skin. H332 Harmful if inhaled. H335+H336 May cause respiratory irritation. May cause drowsiness or dizziness.</p> <p>P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. 305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</p> <p>To avoid risks for the environment and for human's health always observe instructions for use.</p> <p>Product contains: 2-aminoethanol, boric acid, cupric carbonate–cupric hydroxide (1:1), didecylpolyoxethylammoniumborate, technical.</p>
Safety at work	<p>When working with wood preservatives always observe the safety precautions for handling and personal safety in compliance with the container label (particularly hazard symbol, hazard designation, risk phrases and safety advice).</p> <p>Protect face, hands and eyes (greasy protective cream, rubber gloves, goggles). Wash face and hands thoroughly before eating and after work. Do not store food and animal feeding stuffs in the working rooms. Do not pour into eating, drinking or other household containers.</p>

Plant safety	<p>When using impralit®-KDS in a vacuum-pressure impregnation plant always observe the authorisation procedures required by industrial and environmental law to be carried through by the competent authorities</p> <p>Within the impregnation plant only materials should be used whose corrosion resistance had been proved, such as certain commercial steels (a list of suitable steels can be provided upon request). impralit®-KDS and its solutions are not compatible with non-ferrous heavy metals (e.g. zinc, brass, copper) and with galvanised elements. Cement troughs must be insulated with a suitable coating.</p> <p>Under unfavourable circumstances (e.g. soft water, foreign substances) a forming of foam within the plant and during impregnation is possible.</p>
Storage/Transport	<p>2 years. Do not store at temperatures above +50°C. Reseal opened containers tightly after use. Keep impralit®-KDS only in the original container, to be handled by competent persons.</p> <p>impralit®-KDS and its solutions are sensitive to frost. When exposed to frost, the concentrate becomes very viscous, the working solution freezes. When thawed and homogenised, the concentrate and the working solution can be used as usual.</p> <p>Freezing point of concentrate: under -5°C Freezing point of solution: under 0°C</p> <p>Store the containers protected from frost to avoid bursting.</p> <p>RID/ADR: Class 8, UN Number 3267, Packaging group II:</p>
Environmental protection	<p>impralit®-KDS is toxic to fish and bait. Never allow to seep into surface water. Do not allow impralit®-KDS and its solutions to seep into the soil, water or drainage channels.</p> <p>European waste catalogue 03 02 03.</p>
<p>This technical leaflet has been compiled according to our knowledge and experience. In view of the large number of possible applications, we are unable to give a guarantee for every case. In cases of doubt, our technical department should be contacted for further advice. Technical advice for application technique is given without obligation but to the best of our knowledge and experience.</p> <p>Verbal agreements and assurances warrant written confirmation.</p> <p>This technical leaflet supersedes all preceding ones.</p>	