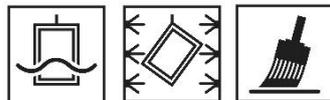




Technical Data Sheet



[Z] ZowoTec® 118 Impregnation ProtectX

Product Description

Product Types

Water-based wood impregnation

- » Fast drying
- » Excellent flow-behavior
- » With biocidal equipment according to EN 113 and EN 152-1 against blue stain and wood-destroying fungi
- » Particularly suitable for flow coater
- » Low odor
- » Easy sanding
- » Compatible with the [Z] DecoTec® and [Z] ZowoTec® range of products

Area of Application

- » Dimensionally stable timber elements (e.g. windows, doors), in- and outdoors
- » [Z] ZowoTec® 118 offers preventive protection against wood-destroying fungi and blue stain. Suitable for wooden parts not exposed to static stress and which do not come into contact with soil. For outdoor application.
- » Long-term protection requires an intact coating. Therefore, coated elements have to be controlled on a regularly basis, including the repair of damages on short notice.

Technical Data

Base of Binder	Alkyd base
Active Agent	0,25 – 0,5 % tebuconazole (ISO) 0,5 – 1,0 % 3-iodo-2-propynyl butylcarbamate
Color	Colorless
Density	Approx. 1 g/ml
pH-Value	7,9 – 8,3
Viscosity	11 ± 1 seconds (DIN 53211-4 / 20 °C) 21 ± 2 seconds (DIN 53211-3 / 20 °C)

Processing Instructions

Application Method

Dipping, flow-coating, brushing

[Z] ZowoTec® 118 is intended for industrial and professional use.

Industrial: Automated and manual dipping, flow-coating, automated spraying.

Professional: Manual dipping, brush.

Processing Viscosity

Ready to use. If necessary can be thinned with max. 5% water (preferably demineralized water).

Processing

- » To avoid flocculation, may not get in contact with solvents.
- » Substrate must be dry, free of dust and grease.
- » Approx. 20 °C for substrate, material und environment, approx. 50% relative air humidity.
- » Do not process below 15 °C or more than 30 °C.



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- » Moisture content of the wood $13 \pm 1\%$
- » Stir material before use.
- » Dipping / flow coating: keep contact time of at least 15 seconds.
- » Dip tank made of a non-corrosive material.
- » Recommendation for intermediate sanding: abrasive with P180 – P240 grit.
- » Wear suitable protective clothing (coverall, gloves, footwear) when applying the product and when handling freshly treated timber. Avoid excessive contamination of coveralls.
- » Handle product and freshly treated wood in areas with good ventilation.
- » Wash hands and exposed skin before meals and after use.
- » Keep in a safe place.

Individual Parts Impregnation

- » [Z] ZowoTec® 118 Impregnation ProtectX is compatible with numerous glues / adhesives. In case of doubt, an individual examination is recommended.
- » DIN 68800-3 recommends in the context of preventive wood protection measures with wood preservatives for not exposed to static stress wooden parts outdoors:
"In order to use preventive wood preservatives in the Non-printing processes (e.g. painting, short-term immersion processes) to achieve effective protection against wood-destroying fungi in the area of corner connections, the components should be individually impregnated before being joined together without impairing the required quality of the bond. "
- » This recommendation of individual part impregnation is also included in the VFF data sheet HO.03: 2012-09:
"If preventive chemical wood protection is to be carried out, the individual parts (individual part impregnation) or the end grain should be impregnated before assembly (see DIN 68800-3, Appendix C) in order to improve the protection in the area of the corner connections. The required quality of the Bonding (see RAL-GZ 695) must not, however, be impaired. "
- » If you work in a three-layer structure with Zobel impregnation primer, intermediate and top coating, the end grain can be protected separately from gluing with [Z] ZowoTec® 118 using a brush or dip process. Following the gluing, the three-layer structure can be implemented in the usual way.

Industrial Use

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).

Professional Use

Application by manual dipping must be carried out within a contained area and situated on an impermeable surface. Storage of treated wood must either be under cover with a recovery system in place or on an impermeable surface. Do not contaminate foodstuffs, eating utensils or food contact surfaces. This material and its container must be disposed of in a safe way

Recommended Tests for Dipping- and Flow-Coating Processing

Foaming

If the [Z] ZowoTec® 118 tends to foam when used in a Flow Coater, we recommend using [Z] ZowoSmart® AntiFoamX 5510. The amount used is between 0,1% and max. 0,3%. The exact quantity of use is listed in the corresponding technical data sheet.

Viscosity

Ready to use. Check the viscosity daily and if necessary, adjust with max. 5% water (preferably demineralized water) or fresh material.

When processing in the flow coater or when used for a long time in the dip tank, water evaporates from the product, which will result in an increase of viscosity. Therefore, check the viscosity before use or at least once a day and if necessary, adjust with max. 5% water (preferably demineralized water) or fresh material. A dilution with more than 5% water is not recommended, as this could lead to excessive changes in the product such as color deviations, reduced insulating properties or a reduction in the biocidal effect.



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pH-Value

Longer or frequent contact times with the wood to be processed can reduce the pH value. This can have a negative effect on the drainage behavior of the product. The pH value can be adjusted using [Z] ZowoSmart® pHPlus. The exact quantity of use is listed in the corresponding technical data sheet.

Hygiene

Due to the contact with the wood to be processed, sanding and wood dust as well as wood shavings can be introduced. These can lead to bacterial infestation. By regular cleaning the systems from foreign substances (e.g. sieving) and adding [Z] ZowoSmart® AntiBak, the infestation be counteracted. The exact quantity of use is listed in the corresponding technical data sheet.

Product Consumption

The application rate of the product is approx. 120 g/m² which can be achieved by 1 – 2 applications.

Drying Time

(20 °C / 50% relative Air Humidity)

Air drying:

Can be worked over after approx. 4 - 6 hours.

Drying time depends on applied quantity and ambient conditions. Low and high humidity retard drying. Always ensure adequate temperature and air exchange.

Recoatibility

After 4 hours at 20 °C / 50% relative air humidity.

Cleaning of the Tools

Immediately after use with water or [Z] ZowoSmart® HydroCleaner.

Approvals / Registrations

- » Federal Institute for Occupational Safety and Health (BAuA) N-90802
- » National registration in the Czech Republic
- » National registration in Poland

Systeme Products

Impregnation	[Z] ZowoTec® 118 Impregnation ProtectX
Primer	[Z] ZowoTec® 200 Primer [Z] ZowoTec® 260 Primer White
Intermediate coat	[Z] ZowoTec® 385 InterCoat White IsoFillX [Z] ZowoTec® 420 TopCoat [Z] ZowoTec® 425 TopCoat HighSolid [Z] ZowoTec® 444 TopCoat DoorX [Z] DecoTec® 5410 UniCoat 2in1 MS Dip [Z] DecoTec® 5420 UniCoat 2in1 MS AntiBlock [Z] DecoTec® 5421 UniCoat 2in1 HS [Z] DecoTec® 5425 UniCoat 2in1 Impregnation [Z] DecoTec® 5450 UniCoat COLOR 2in1
Top coat	[Z] ZowoTec® 420 TopCoat [Z] ZowoTec® 425 TopCoat HighSolid [Z] ZowoTec® 480 TopCoat COLOR [Z] ZowoTec® 484 TopCoat COLOR DoorX [Z] ZowoTec® 485 TopCoat COLOR AquaSaveX [Z] ZowoTec® 494 TopCoat COLOR DoorX Texture [Z] DecoTec® 5410 UniCoat 2in1 MS Dip [Z] DecoTec® 5420 UniCoat 2in1 MS AntiBlock [Z] DecoTec® 5421 UniCoat 2in1 HS [Z] DecoTec® 5425 UniCoat 2in1 Impregnation [Z] DecoTec® 5450 UniCoat COLOR 2in1



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

Standard Steps of Coating

Glazing	[Z] ZowoTec® 118 Impregnation ProtectX [Z] ZowoTec® 200 Primer [Z] ZowoTec® 425 TopCoat HighSolid, approx. 150 µm [Z] ZowoTec® 425 TopCoat HighSolid, approx. 150 µm
Opaque	[Z] ZowoTec® 118 Impregnation ProtectX [Z] ZowoTec® 260 Primer White [Z] ZowoTec® 385 InterCoat White IsoFillX, approx. 150 µm [Z] ZowoTec® 485 TopCoat COLOR AquaSaveX, approx. 150 µm

Type of Packaging

20 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!» 3-Iodo-2-propynyl-N-butylcarbamate a carbamate compound which has weak anticholinesterase activity. DO NOT USE if under medical advice not to work with anticholinesterase compounds.
Minimum Shelf Life	12 months cool but free of frost in the closed original packaging.
Safety Instructions	<p>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.</p> <p>Use biocides with care. Wood which will be in contact with food or fodder according to its intended use must not be treated with wood preservatives. The substance and product remnants must not come into waters, the soil or the canalisation. Contains propiconazole, 3-Iodo-2-propynyl-N-butylcarbamate und 1,2-benzisothiazol-3(2H)-one. May cause allergic reactions. Wood preservatives contain biocidal agents for protecting the wood against pest. They may only be used according to the instructions for use and only in the approved fields of application. Misuse can cause damage to health and to the environment.</p>

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.