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Technical Data Sheet

[Z] ZowoTec® 203
Primer ProtectX

Product Description

Product Type

Water-based, glazing protective primer

- With biocidal equipment according to EN 113 and EN 152-1 against blue stain and wood-destroying fungi
- Homogeneous coloring for problematical woods and finger-joints
- Fast drying
- Excellent flow-behavior
- Easy sandable
- Low odor

Area of Application

- Dimensionally stable timber elements (e.g. windows, doors), in- and outdoors
- [Z] ZowoTec® 203 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	Hybrid system of alkyd and acrylate
Active Agent	0,25 – 0,5 % tebuconazole (ISO) 0,5 – 1,0 % 3-iodo-2-propynyl butylcarbamate
Pigments	Strong weather-resistant and lightfast inorganic and organic colored pigments
Color	» Color-Line Nature, Color-Line Classic and special colors based on [Z] ZowoTec® 203 Base GL. Integrated into Berger-Zobel Color Mixing System. » Color of coating structure results through the interaction with the color of the intermediate and final coating. » Color can be influenced by timber-species, -quality, -humidity and processing conditions. » The color and its intensity are determined by the type of application, such as paint or spray, and the associated layer thicknesses influenced. » Despite the same color names, there may be a color difference to other Berger-Zobel products. The difference is influenced by the base of binder, layer thickness, type of application or the used primer
Density	Approx. 1 g/ml
pH-Value	7,8 – 8,4
Viscosity	11 ± 1 seconds (DIN 53211-4 / 20 °C) 21 ± 2 seconds (DIN 53211-3 / 20 °C) 50 ± 3 seconds (DIN 53211-2 / 20 °C)

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Processing Instructions

Processing

» To avoid flocculation, may not get in contact with solvents.
» Substrate must be dry, and 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.
» Wood moisture 13 ± 2%
» Thoroughly clean the substrate of sanding and wood dust and wood shavings
» **Stir material well before use**; avoid the inclusion of air
» Dipping / flow coating: keep contact time of at least 15 seconds.
» Dip tank made from 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.

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 Process

Foaming

If [Z] ZowoTec® 203 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 in 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.

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.

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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 regularly 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. 100 g/m² which can be achieved by 1 – 2 applications.
Drying Time	Air drying:
(20 °C / 50% relative Air Humidity)	Can be worked over after approx. 4 hours.
	Drying time depends on applied quantity and ambient conditions. Low and high humidity retard drying. Always ensure adequate temperature and air exchange.
Recoatability	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-90803

» National approval in the Czech Republic

System Productes

Primer	[Z] ZowoTec® 203 Primer ProtectX
Intermediate coat	[Z] ZowoTec® 340 InterCoat IsoX Spray [Z] ZowoTec® 420 TopCoat [Z] ZowoTec® 421 TopCoat UVPlusX [Z] ZowoTec® 425 TopCoat HighSolid [Z] ZowoTec® 426 TopCoat HighSolid UVPlus [Z] ZowoTec® 433 TopCoat Invisible Nature
Top coat	[Z] ZowoTec® 420 TopCoat [Z] ZowoTec® 421 TopCoat UVPlusX [Z] ZowoTec® 425 TopCoat HighSolid [Z] ZowoTec® 426 TopCoat HighSolid UVPlus [Z] ZowoTec® 433 TopCoat Invisible Nature

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

Standard Steps of Coating

1 x [Z] ZowoTec® 203 Primer ProtectX

1 x [Z] ZowoTec® 425 TopCoat HighSolid, approx. 150 µm

1 x [Z] ZowoTec® 425 TopCoat HighSolid, approx. 150 µm

Type of Packaging

20 Liters, further packaging units on request

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Additional Information

Special Information	» 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-butylcarbamat 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	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. 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.