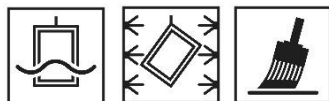




Technical Data Sheet



[Z] ZowoTec® 243 Primer PrepareProtectX

Product Description

Product Type

Water-based, colorless wood binder

- » Simplifies sanding through fiber fixation
- » Creates very smooth wooden surfaces
- » Reduces the amount of sanding in the coating structure
- » Very fast drying
- » Excellent flow-behavior
- » With biocidal equipment according to EN 113 and EN 152.1 against blue stain and wood-destroying fungi
- » Low odor

Area of Application

Dimensionally stable timber elements (e.g. windows, doors), in- and outdoors. Particularly suitable for colorless wood-aluminum windows.

[Z] ZowoTec® 243 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
Color	Colorless
Density	Approx. 1 g/ml
pH-Value	8,6 – 9,2
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® 243 is intended for industrial and professional use.

Industrial: Automated and manual dipping, flow coating, automated spraying
Professional: Manual dipping, brush.

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%
- » Stir material before use.



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- » 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® 243 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.

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

(20 °C / 50% relative Air Humidity)

Air drying:

Can be worked over after approx. 1 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 1 hours at 20 °C / 50% relative air humidity.

Cleaning of the Tools

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



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System Products

Primer	[Z] ZowoTec® 243 Primer PrepareProtectX
Intermediate Coat	[Z] ZowoTec® 340 InterCoat IsoX Spray [Z] ZowoTec® 421 TopCoat UVPlusX [Z] ZowoTec® 426 TopCoat HighSolid UVPlus [Z] ZowoTec® 433 TopCoat Invisible Nature
Top Coat	[Z] ZowoTec® 421 TopCoat UVPlusX [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

Glazing	1 x [Z] ZowoTec® 243 Primer PrepareProtectX 1 x [Z] ZowoTec® 426 TopCoat HighSolid UVPlus, approx. 150 µm 1 x [Z] ZowoTec® 426 TopCoat HighSolid UV Plus, approx. 150 µm
Raw wood look	1 x [Z] ZowoTec® 243 Primer PrepareProtectX 1 x [Z] ZowoTec® 433 TopCoat Invisible Nature, approx. 125 µm 1 x [Z] ZowoTec® 433 TopCoat Invisible Nature, approx. 125 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.