

Guide to Coating Accoya Timber Joinery

Application Method, factory applied wood grain finish	Base Coat	V-Joint Sealant / End-Grain sealant	Undercoat Coat	Top Coat
Spray	[Z] ZowoTec 203	[Z] ZowoSeal V-Joint sealant [Z] ZowoSeal End-grain sealant	[Z] ZowoTec 421	[Z] ZowoTec 421
Flow Coating	[Z] ZowoTec 203			
Dipping	[Z] ZowoTec 203			
*optional for doors:	[Z] ZowoTec 203		[Z] ZowoTec 444	[Z] ZowoTec 444

Application Method, factory applied solid colour finish	Base Coat	V-Joint Sealant / End-Grain sealant	Undercoat Coat	Top Coat
Spray	[Z] ZowoTec 263	[Z] ZowoSeal V-Joint sealant [Z] ZowoSeal End-grain sealant	[Z] ZowoTec 384	[Z] ZowoTec 480
Flow Coating	[Z] ZowoTec 263			
Dipping	[Z] ZowoTec 263			
*optional for doors:	[Z] ZowoTec 263		[Z] ZowoTec 384	[Z] ZowoTec 484

Guide to coating Accoya Timber, Exterior (excluding Joinery and Decking)

Application Method wood grain finish	Base Coat	End-Grain sealant	Undercoat	Top Coat
Brush	[Z] DecoTec 5426	[Z] ZowoSeal End- grain sealant	[Z] DecoTec 5420	[Z] DecoTec 5420
Roller	[Z] DecoTec 5426		[Z] DecoTec 5420	[Z] DecoTec 5420
Spray	[Z] DecoTec 5426		[Z] ZowoTec 421	[Z] ZowoTec 421

Application Method solid colour finish	Base Coat	End-Grain sealant	Undercoat	Top Coat
Brush	[Z] ZowoTec 263	[Z] ZowoSeal End- grain sealant	[Z] DecoTec 5450	[Z] DecoTec 5450
Roller	[Z] ZowoTec 263		[Z] DecoTec 5450	[Z] DecoTec 5450
Spray	[Z] ZowoTec 263		[Z] DecoTec 5450	[Z] DecoTec 5450

Technical Data Sheet



Zowo-tec® 106

Protective Wood Impregnation

Product Description

Product Type

Water-based, fast drying, easy sandable, low odor impregnation with biocidal setting according to EN 113 and EN 152.1.

Area of Application

Dimensionally stable timber elements (e.g. windows, doors). Zowo-tec® 106 offers preventive protection against wood-destroying fungi, blue stain and insects. 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

0,8% iodopropinyl-butylcarbamate, 0,0005% Permethrin, 0,005% N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionat

Color

Colorless

Density

Ca. 1 g/ml

Viscosity

11 ± 1 seconds (DIN-4-Cup / 20 °C)

Processing Instructions

Application Method

Dipping, Flow Coating, Brushing. Spraying only in contained systems.

Please observe ZOBEL steps of coating! Perform a test coating. Check product before use. Subsequent claims can not be considered.

Processing Viscosity

Ready to use. Check viscosity. If necessary, can be thinned with water

Processing Conditions

- Substrate must be dry and free of dust and grease
- Moisture content of the wood 13 ± 1%
- Ca. 20 °C for substrate, material und environment, ca. 50% relative air humidity
- Do not process below 15 °C or more than 30 °C
- Stir material before use; avoid 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

Product Consumption

Ca. 120 ml/m²

Drying Time

Can be worked over after approx. 2 hours

(20 °C / 50% relative air humidity)

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

Cleaning of the tools

Immediately after use with water or Zowo-Clean Hydro Cleaner

Additional Information

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 iodopropinyl-butylcarbamate. 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.

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.

Version: 2016-08

Technical Data Sheet



Zowo-tec® 203 Protective Primer Glazing

Product Description

Product Type
Area of Application

Water-based primer with biocidal setting acc. to EN 113 and EN 152.1.
Dimensionally stable timber elements (e.g. windows, doors). Zowo-tec® 203 offers preventive protection against wood-destroying fungi, blue stain and insects. 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
Active Agent

Pigments
Color

Hybrid system of Alkyd and Acrylate
1% Propiconazole, 0,0005% Permethrin,
0,005% N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionat
Strong weatherproof and lightfast inorganic and organic colored pigments
Color-Line Nature and special colors based on Zowo-tec® 203 Basis GL. Integrated into 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.

Density
Viscosity

Ca. 1 g/ml
11 ± 1 seconds (DIN-4-Cup / 20 °C)

Processing Instructions

Application Method

Dipping, Flow Coating, Brushing
Please observe ZOBEL steps of coating! Perform a test coating. Check color before use. Subsequent claims can not be considered.

Processing Viscosity
Processing Conditions

Ready to use. Check viscosity. If necessary, can be thinned with water
- Substrate must be dry and free of dust and grease
- Moisture content of the wood 13 ± 1%
- Ca. 20 °C for substrate, material und environment, ca. 50% relative air humidity
- Do not process below 15 °C or more than 30 °C
- **Stir material well before use**; avoid 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

Product Consumption
Drying Time
(20 °C / 50% relative air humidity)

Ca. 100 ml/m²
Can be worked over after approx. 4 hours
Drying time depends on applied quantity and ambient conditions. Low temperature and high humidity retard drying. Always ensure adequate temperature and air exchange.
Immediately after use with water or Zowo-Clean Hydro Cleaner

Cleaning of the tools

Additional Information

VOC-Labeling

EU-limit for the product (Cat. A/h): 50 g/l (2007) / 30 g/l (2010)
This product contains maximum < 30 g/l VOC

Minimum Shelf-Life
Safety Instructions

12 months cool but free of frost in the closed original packaging
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. 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.

Technical Data Sheet



Zowo-tec® 263

Insulating Protective Primer white, opaque

Product Description

Product Type

Area of Application

Water-based white primer with insulation action against water-soluble constituents of hard and coniferous wood and biocidal setting acc. to EN 113 and EN 152.1.

Dimensionally stable timber elements (e.g. windows, doors). Zowo-tec® 263 offers preventive protection against wood-destroying fungi, blue stain and insects. 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

Active Agent

Pigments

Color

Density

Viscosity

Acrylate

1,2% Propiconazole, 0,0005% Permethrin,
0,005% N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionat

Titanium dioxide, extender

White

Ca. 1,2 g/ml

11 ± 1 seconds (DIN-4-Cup / 20 °C)

Processing Instructions

Application Method

Processing Viscosity

Processing Conditions

Dipping, Flow Coating, Brushing

Please observe ZOBEL steps of coating! Perform a test coating. Check product before use. Subsequent claims can not be considered.

Ready to use. Check viscosity. If necessary, can be thinned with water

- Substrate must be dry and free of dust and grease
- Moisture content of the wood 13 ± 1%
- Ca. 20 °C for substrate, material und environment, ca. 50% relative air humidity
- Do not process below 15 °C or more than 30 °C
- Stir material before use; avoid 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 grit. For preserving the insulation and fungicidal action do not send down to the substrate!

Ca. 100 ml/m²

Product Consumption

Drying Time

(20 °C / 50% relative air humidity)

Can be worked over after approx. 4 hours

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

Immediately after use with water or Zowo-Clean Hydro Cleaner

Cleaning of the tools

Additional Information

VOC-Labeling

Minimum Shelf-Life

Safety Instructions

EU-limit for the product (Cat. A/h): 50 g/l (2007) / 30 g/l (2010)

This product contains maximum < 30 g/l VOC

12 months cool but free of frost in the closed original packaging

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. 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.

Technical Data Sheet



Zowo-tec® 384

Intermediate Coating insulating, white opaque

Product Description

Product Type

Area of Application

Water-based, one-component, high solid, sprayable intermediate coating with protective action against discoloring wood ingredients. Zowo-tec® 384 is characterized by fast layer build-up, high covering power and good sandability. Its viscosity setting ensures safe processing even on complex geometries.

Dimensionally stable timber elements in- and outdoors. Due to its high filling power and powdery sandability, the intermediate coating is also the ideal product solution for coating MDF.

Technical Data

Base of Binder

Pigments

Color

Density

Viscosity

Special functional acrylate

Titan dioxide

White

Ca. 1,31 g/ml

Thixotropic setting

Processing Instructions

Application Method

Spraying

Spraying process	Nozzle [mm]	Pressure [bar]	Atomiser [bar]
Airless / Airmix	0,28 – 0,33	50 – 100	0 – 3,5
Low Pressure Air Spraying	1,8 – 2,7	2,5 – 3,5	./.

Recommended wet-film thickness ca. 150 µm. Please observe ZOBEL steps of coating!

Perform a test coating. Check product before use. Subsequent claims can not be considered.

Ready to use. If necessary, can be thinned with water

- Substrate must be dry and free of dust and grease
- Moisture content of the wood $13 \pm 1\%$
- Ca. 20 °C for substrate, material und environment, ca. 50% relative air humidity
- Do not process below 15 °C or more than 30 °C
- Stir material before use; avoid inclusion of air
- **Zowo-tec® 384 is not mixable with other products.**

Clean tools thoroughly when changing products.

Ca. 150 ml/m² at a wet-film thickness of 150 µm (without overspray)

Can be worked over after approx. 6 hours

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

Immediately after use with water or Zowo-Clean Hydro Cleaner

Processing Viscosity

Processing Conditions

Product Consumption

Drying Time

(20 °C / 50% relative air humidity)

Cleaning of the tools

Additional Information

VOC-Labeling

EU-limit for the product (Cat. A/d): 130 g/l (2010)

This product contains maximum < 130 g/l VOC

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.

Technical Data Sheet



Zowo-tec® 421

Glaze UV⁺, colorless (Basis EL)

Product Description

Product Type

Water-based, early block resistant, UV-resistant, colorless intermediate and final coating with excellent transparency and brilliancy, emphasizing the natural wood grain. Protection of the unpigmented film and substrate by special UV absorbers and radical scavengers.

Area of Application

In coating structure with pigmented primer for dimensionally stable timber elements (e.g. windows, doors), in- and outdoors. Highly-dosed UV-protection allows a classification of the colorless glaze as "medium color".

Technical Data

Base of Binder

Low molecular, self-curing multiphase polymer on basis of an acrylate

Color

Colorless and color tones white spruce ("weißfichte", only for wood species spruce), white larch ("weißlärche", only for wood species larch), color collection Color-Line Nature (here Zowo-tec® 421 is especially recommended for the color shades maple ("ahorn") and pine ("kiefer")) and special colors based on Basis EL. Delivery form when ordering "colorless" is Basis EL.

Color of coating structure results through the interaction with the color of the primer. Also when processed as a colorless top coat, Zowo-tec® 421 has to be applied in combination with a pigmented primer.

Gloss Level

Color can be influenced by timber-species, -quality, -humidity and processing conditions.

Density

Silk gloss or matt

Viscosity

Ca. 1,04 g/ml

Thixotropic setting

Processing Instructions

Application Method

Spraying

Spraying process	Nozzle [mm]	Pressure [bar]	Atomiser [bar]
Airless / Airmix	0,23 – 0,33	50 – 100	0 – 3,5
Low Pressure Air Spraying	1,8 – 2,7	2,5 – 3,5	./.

Can be sprayed up to a wet-film thickness of 300 µm*. Please observe ZOBEL steps of coating! *Depending on color and processing conditions, the maximum wet-film thickness may be less in individual cases. Perform a test coating. Check color before use. Subsequent claims can not be considered. Wood ingredients can cause discoloration.

Ready to use. If necessary, can be thinned with water

- Substrate must be dry and free of dust and grease
- Moisture content of the wood 13 ± 1%
- Ca. 20 °C for substrate, material und environment, ca. 50% relative air humidity
- Do not process below 15 °C or more than 30 °C
- Stir material before use; avoid inclusion of air

Ca. 150 ml/m² at a wet-film thickness of 150 µm (without overspray)

Can be worked over after approx. 4 hours (at a wet-film thickness of 150 µm).

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

Immediately after use with water or Zowo-Clean Hydro Cleaner

Processing Viscosity

Processing Conditions

Product Consumption

Drying Time

(20 °C / 50% relative air humidity)

Cleaning of the tools

Additional Information

VOC-Labeling

EU-limit for the product (Cat. A/e): 150 g/l (2007) / 130 g/l (2010)

This product contains maximum < 130 g/l VOC

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.