

OPTIMAL

Product description

Type

Opaque exterior wood protection with excellent color and gloss retention and long maintenance intervals.



Features and benefits

The combination of high quality binders and weather resistant pigments protects the wood against sunlight and provides very good weatherability. Contains effective film conserving agent that counteracts the risk of black mold growing on the wood surface. Retains colour and gloss over an extended period. The coating has excellent application properties and is fast-drying - 2 coats in one day.

Recommended use

To be used in combination with **VISIR Oljegrunning**, as part of a system treatment. To be applied to new, previously stained or painted woodwork, as well as impregnated. Also suitable as a topcoat for previously primed gutters, fascia's made of plastic and metal commonly use on buildings. Prime the metal with **QUICK Bengalack Grunning**.



Vann/JOTUN Penselrens

Product data

Packaging size	3 L (filling level 2.7 L) and 10 L (filling level 9 L)
Base availability	White, A-, B-, C-, oxide red-, ochre- and yellow base. Bases must not be used unless tinted (does not apply for white base).
Tinting	Bases must be tinted using Jotun Multicolor .
Colors	White base may be used untinted as White.
Gloss level	20-30
Generic type	Based on special acrylic and alkyd.
Solids by volume	36 ± 2 volume%
Specific gravity	1.26
pH value	8.2 to 8.9
VOC for Ready-for-Use Mixture	EU limit value for the product (cat. A/d): 130 g/l. The product contains max 80 g/l VOC.

Application data

Remarks

To ensure long durability it is important to apply a sufficient amount on edges and planed surfaces, min. 3 coats (100 µm dry paint film). Sand down sharp edges. Remember to coat end grain. Can not be mixed with other paint products and do not mix in oil additives. The product is water soluble. The product shall not be thinned.

Previous tar/mineral oil treatment and knots may cause discolouration/blistering of the topcoat. Linseed oil / oils in the substrate can cause blisters and flaking. Sun on semi-dry treatment may cause skin drying and sun blisters. Painting on fire protected cladding may cause salt precipitation/flaking.

Bases must be tinted using **Jotun Multicolor**. Content of cans from different productions and different tinting systems may cause shade differences. Measures one can take to avoid colour differences:

- Mix different production numbers together. Stir well.
The production number can be found after the letters SZ or SV on the label in the front of the can.
- It is advantageous to use the same batch number within the same defined area. Changing the can in the middle of the wall or confined area, increases the possibility of a visible colour difference.
- There may be colour differences of paint which are mixed on different tinting machines and / or at different times. Please be aware of this if you need to buy more paint / opaque stain / stain for the same project at a later time.
- If you notice any visible differences, contact your point of sale or Jotun Technical Service (tel. 33457530).

Application equipment / methods

Brush or roller. Airless spray may be used.

Guiding data for airless spray

Nozzle tip	0.46 mm (0.018")
Spray angle degrees	65–80°
Pressure at nozzle	15–18 MPa (150–180 kg/cm ²)

Spreading rate and film thickness

	Spreading rate per coat (m ² /liter)	Film thickness per coat (µm)	
		Wet (calculated)	Dry (calculated)
Recommended, sawn wood:	7 – 10	100 – 143	36 – 51
Recommended, planed wood:	10 – 12	83 – 100	30 – 36

Cleaning of painting tools

Water and **JOTUN Penselrens**.

Dilution

Do not mix in oil additives.

Conditions during application

Air and surface temperature must be above +5 °C during application.

Do not paint if there is a risk of condensation or rain and wait until the film is dry.

- High humidity (RH%) significantly prolongs the drying time for waterborne products.
- Warm air can hold more moisture than cold air, and in case of temperature drop this can cause condensation.
- Stagnant air retards the drying, and can provide greater risk of condensation.
- Low temperature and condensation can provide inadequate film formation / curing.

Where condensation is possible, one should therefore finish the painting job well in advance.

The product contains effective agents against surface mould. In unfavorable drying and curing conditions, these can form a visible yellow compound in the surface. This is a surface phenomenon that will disappear after some time under the influence of light and UV rays. The phenomenon will not affect the product's effectiveness against surface fungi or otherwise impair the product's quality and durability.

Drying times

Drying times deviate because of changes in temperature, air humidity, wind, absorption and film thickness.

The drying time is measured by stated values:

Relative Humidity (RH)	50 %	50 %	50 %
Air temperature	5 °C	15 °C	23 °C
Substrate temperature	5 °C	15 °C	23 °C

Dust dry	1,5 h	1 h	0,5 h
Recoatible, minimum	6 h	3 h	2 h

Directions for use

The substrate must be clean, sound and dry. For the best possible edge coverage, sand down sharp edges.

Substrate	Treatment
New woodwork:	To be treated before or immediately after installation. Apply VISIR Oljegrønning to bare woodwork. The primer must be brushed out thoroughly. Apply 3-4 coats wet-on-wet to the end grains/cut surfaces. Use VISIR Oljegrønning klar during the cold season when the air and surface temperature is below +5 °C. Topcoat: OPTIMAL . New, planed woodwork: 3 coats . New, sawn wood: 2 coats.
Fresh wood left untreated for more than 4 weeks:	Should be cleaned using NO: JOTUN 3-i-1 Kraftvask og soppfjerner / SE: JOTUN 3-i-1 Kraftvask och mögeldesinfektion and brushed with a wire brush. Apply VISIR Oljegrønning to bare woodwork. The primer must be brushed out thoroughly. Apply 3-4 coats wet-on-wet to the end grains/cut surfaces. Use VISIR Oljegrønning klar during the cold season when the air and surface temperature is below +5 °C. Topcoat: OPTIMAL . New, planed woodwork: 3 coats. New, sawn wood: 2 coats.
Previously treated wood:	Should be cleaned using NO: JOTUN 3-i-1 Kraftvask og soppfjerner / SE: JOTUN 3-i-1 Kraftvask och mögeldesinfektion . Remove loose paint/stain and wood fibers by wire brush or scraping. Sand glossy and hard surfaces. Bare spots (from drybrushing/scraping) to be primed with VISIR Oljegrønning . The primer must be brushed out thoroughly. Apply 3-4 coats wet-on-wet to the end grains/cut surfaces. Topcoat: 2 coats OPTIMAL .
Gutters, fascias made of plastic and metal commonly used on buildings:	Clean with NO: JOTUN 3-i-1 Kraftvask og soppfjerner / SE: JOTUN 3-i-1 Kraftvask och mögeldesinfektion . Prime the metal with QUICK Bengalack Grønning . Topcoat: 2 coats OPTIMAL .

Maintenance

Wash the house with NO: **JOTUN 3-i-1 Kraftvask og soppfjerner** / SE: **JOTUN 3-i-1 Kraftvask och mögeldesinfektion** diluted 1:15 when necessary.

Management, Operation and Maintenance

Please refer to the FDV datasheet for information regarding maintenance and repair of the painted surface.

Storage

In storage and in transport keep the container frost free and upright.

Disposal of waste

Liquid paint and washing water with paint residues must not be emptied into drains or watercourses. It must be delivered to an approved local environmental protection station.



Must be empty and dry

Environmental labelling



The product is recognized by Miljømerking Norge, and conforms with the demands of the environmental label Svanen (the swan).

Green Building Standards

The declared product contributes to Green Building Standard credits by meeting the following specific requirements:

BREEAM® NOR (2016)

Mat 01: Product-specific Type III EPD (ISO 14025;21930, EN 15804) for Scandinavia.

Mat 01: The product Safety Data Sheet confirms that the product does not contain any substances on the Norwegian A20 list.

BREEAM® NOR (2012)

Mat 1.3: Product specific type III EPD (ISO 14025, ISO 21930, EN 15804) for Scandinavia.

Mat 1.5: This product Safety Data Sheet confirms that the product does not contain any substances on the Norwegian A20 list.

Additional certificates and approvals may be available on request.

Health and safety

Please observe the environmental and precautionary notices displayed on the container.

A Material Safety Data Sheet for the product has been issued.

Detailed information regarding health and safety risks and precautions for the use of this product is specified in the product's Safety Data Sheet.

First-aid measures, refer to section 4.

Handling and storage, refer to section 7.

Transport information, refer to section 14.

Regulatory information, refer to section 15.

Indoor environment / Emission

The product is recommended for outdoor use only.

Miscellaneous

NOBB number

This document covers the following NOBB numbers:

31167059, 31174436, 31174360, 31174444, 31174378, 31174451, 31174386, 31174469, 31174394, 31177009, 31174402, 31177017, 31174410, 31177025

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Disclaimer

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (Eng) version will prevail.