

## OPTIMAL Vindu og dør

### Product description

#### Type

Opaque wood protection for outdoor use.



#### Features and benefits

Very good colour stability and long maintenance intervals. Contains effective film conserving agent that counteract mould growth.

Easy to apply. Retains colour and gloss over an extended period. Has good adhesion.

#### Recommended use

Especially suitable for planed wood, like windows, doors, window dressings, garden furniture, garage door, fences etc. 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. To be used in combination with **VISIR Oljegrønning**, as part of a system treatment.



Vann/JOTUN Penseltrens

### Product data

|                                      |  |
|--------------------------------------|--|
| <b>Packaging size</b>                | 0,75 L (filling level 0,68 L) and 3 L (filling level 2.7 L)  |
| <b>Base availability</b>             | White, A, B, C and oxide red.  |
| <b>Tinting</b>                       | Bases must not be used unless tinted (does not apply for white base). Bases must be tinted using <b>Jotun Multicolor</b> . |
| <b>Colors</b>                        | White base may be used untinted as White.  |
| <b>Gloss level</b>                   | 45-55 semi gloss   |
| <b>Generic type</b>                  | Based on acrylic/alkyd hybrid technology.  |
| <b>Solids by volume</b>              | 35 ± 2 volume%   |
| <b>Specific gravity</b>              | 1.08 - 1.29 C-base/white   |
| <b>pH value</b>                      | 7.8 to 8.4   |
| <b>VOC for Ready-for-Use Mixture</b> | 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 paint may cause skin drying and sun blisters. Painting on fire protected cladding may cause salt precipitation/flaking.

Bases must be tinted using **Jotun Multicolor**. 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, roller or spray.

### Guiding data for airless spray

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

The product may be diluted in case of spray application. Thinner: water

### Spreading rate and film thickness

|                                  | Spreading rate<br>per coat<br>(m <sup>2</sup> /liter) | Film thickness per coat<br>(µm) |                  |
|----------------------------------|---|---------------------------------|------------------|
|                                  |   | Wet (calculated)                | Dry (calculated) |
| <b>Recommended, sawn wood :</b>  | 6 – 9   | 111 – 167                       | 39 – 58          |
| <b>Recommended, planed wood:</b> | 9 – 12  | 83 – 111                        | 29 – 39          |

### 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 |

|                     |      |     |     |
|---------------------|------|-----|-----|
| Dust dry            | 6 h  | 4 h | 2 h |
| Recoatible, minimum | 12 h | 6 h | 4 h |

## Directions for use

The substrate must be clean, sound and dry.

For the best possible edge coverage, sand down sharp edges. Smooth sharp edges using emery/sand paper.

| Substrate   | Treatment   |
|---|---|
| New / untreated timber:                                   | New untreated or impregnated woodwork as well as exposed putty to be primed with 1 x <b>VISIR Oljegrunning</b> . The primer must be brushed out thoroughly. Apply 3-4 coats wet-on-wet to the end grains/cut surfaces.<br>Topcoat: Apply 3 coats <b>OPTIMAL Vindu og dør</b> on new planed woodwork and 2 coats on on new sawn woodwork.  |
| Fresh wood left untreated for more than 4 weeks:          | Fresh wood left untreated for more than 4 weeks should be cleaned using NO: <b>JOTUN 3-i-1 Kraftvask og soppfjerner</b> / SE: <b>JOTUN 3-i-1 Kraftvask och mögeldesinfektion</b> and brushed with a wire brush.<br>New untreated or impregnated woodwork as well as exposed putty to be primed with 1 x <b>VISIR Oljegrunning</b> . The primer must be brushed out thoroughly. Apply 3-4 coats wet-on-wet to the end grains/cut surfaces.<br>Topcoat: Apply 3 coats <b>OPTIMAL Vindu og dør</b> on new planed woodwork and 2 coats on on new sawn woodwork. |
| Vacuum and dip treated wood (containing wax or silicone): | Vacuum and dip treated wood (containing wax or silicone) should be degreased with methylated spirit.<br>New untreated or impregnated woodwork as well as exposed putty to be primed with 1 x <b>VISIR Oljegrunning</b> . The primer must be brushed out thoroughly. Apply 3-4 coats wet-on-wet to the end grains/cut surfaces.<br>Topcoat: Apply 3 coats <b>OPTIMAL Vindu og dør</b> on new planed woodwork and 2 coats on on new sawn woodwork.  |
| Copper impregnated wood:                                  | Pressure impregnated wood must be dry before treatment, ie the moisture in the wood should not exceed 20%. Then the surface must be washed well with water to remove surface salts before treatment.<br>New untreated or impregnated woodwork as well as exposed putty to be primed with 1 x <b>VISIR Oljegrunning</b> . The primer must be brushed out thoroughly. Apply 3-4 coats wet-on-wet to the end grains/cut surfaces.<br>Topcoat: Apply 3 coats <b>OPTIMAL Vindu og dør</b> on new planed woodwork and 2 coats on on new sawn woodwork.            |
| Dirty surfaces /surfaces with surface mold:               | Contaminated, untreated substrates to be washed with NO: <b>JOTUN 3-i-1 Kraftvask og soppfjerner</b> / SE: <b>JOTUN 3-i-1 Kraftvask och mögeldesinfektion</b> . Rinse well with fresh water.<br>New untreated or impregnated woodwork as well as exposed putty to be primed with 1 x <b>VISIR Oljegrunning</b> . The primer must be brushed out thoroughly. Apply 3-4 coats wet-on-wet to the end grains/cut surfaces.<br>Topcoat: Apply 3 coats <b>OPTIMAL Vindu og dør</b> on new planed woodwork and 2 coats on on new sawn woodwork.                    |

|  |  |
|--|--|
| Previously treated wood:   | Previously treated wood should be cleaned using NO: <b>JOTUN 3-i-1 Kraftvask og soppfjerner</b> / SE: <b>JOTUN 3-i-1 Kraftvask och mögeldesinfektion</b> . Rinse well with fresh water.<br>Sand glossy and hard surfaces. Remove loose paint/stain and wood fibers by wire brush or scraping.<br>New untreated or impregnated woodwork as well as exposed putty to be primed with 1 x <b>VISIR Oljegrunning</b> . Apply 3-4 coats wet-on-wet to the end grains/cut surfaces.<br>Topcoat: Apply 2 coats <b>OPTIMAL Vindu og dør</b> . |
| Gutters, fascias made of plastic and metal commonly used on buildings: | Clean with NO: <b>JOTUN 3-i-1 Kraftvask og soppfjerner</b> / SE: <b>JOTUN 3-i-1 Kraftvask och mögeldesinfektion</b> .<br>Bare metal to be primed with 1 x <b>QUICK Bengalack Grunning</b> .<br>Topcoat: Apply 2 coats <b>OPTIMAL Vindu og dør</b> .  |

## 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.



## 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

### Contact information

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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.