

# CARE AND MAINTENANCE DOCUMENTS

February 2019

**CLADDING AND WOODEN ROOFING, MØREROYAL®-IMPREGNATED NOBB module no. 23534209, 23535115,**

**23550338, 23586365, 23533359**

## **1. PRODUCT DESCRIPTION**

Cladding and wooden roofing are produced from planed pine, with an unplanned front. Available in several variants and profiles. There are different standards for cladding and wooden roofing. MøreRoyal® is only supplied in class 1.

In addition to being pressure-impregnated with a copper-based water-soluble salt impregnation, MøreRoyal® timber products are baked in a process oil under vacuum. This process gives an almost water-resistant surface and reduces moisture movement in the wood. This increases dimensional stability, reduces moisture movement and crack formation. A colour pigment can be added to the oil. Pigment colours: **RB.10 brown, RY.20 ochre, RG 25 grey, RS. 25 Alpine black, and RO.0 natural.**

These are transparent colours. Cosmetic variations/differences in colour can occur, as the heartwood, sapwood and knots can absorb pigment differently. Because we use pine, resin can often ooze out, especially around knots. Resin deposits and drying-out will be more pronounced the darker the pigment colour.

Pressure-impregnated and royal-treated timber products rest on laths during production, which can leave striped marks. Resin deposits and lath marks are not a cause for complaint.

Pressure-impregnation is classified according to the requirements of the impregnation standard NS-EN 351 and supplied in class AB. Impregnation helps ensure that the timber has a longer service life. Other adaptation of the boards than cutting the ends can reduce service life. We recommend sealing all cut edges exposed to the weather with MøreRoyal® wood oil.

Cut edges concealed in constructions do not need to be sealed, on the following condition: corner casings and constructions that cover or protect cut surfaces must allow plenty of air to circulate, to prevent any moisture from remaining inside the construction.

Talgø MøreTre AS is a member of Norsk Impregneringskontroll (NIK) and uses the Nordic impregnation classifications defined in the Nordisk Trebeskyttelsesråd (NTR) document no. 1. The Norwegian impregnation classes are based on NS-EN 351, and correspond to impregnation class P8. The criteria for penetration of the impregnation agent are determined by the NTR. Inspections are performed by NIK twice annually. Timber that is not inspected by NIK is of unknown quality and is not classified.

### **Advantages of MøreRoyal®:**

Copper-based pressure-impregnation. Wood protection to extend durability. Dry effect.

Oiled on all surfaces.

Oil reduces moisture absorption, gives stability and reduces cracks. Oil prevents the loss of the substances used for impregnation.

Available in 5 different colours.

Low maintenance costs.

Lower total cost over product lifetime.

**Expected lifetime/service life:**

It is difficult to state the lifetime of pressure-impregnated wood in years, as it depends considerably on the environment the construction stands in. Cu-impregnated wood normally achieves a lifetime 5 times that of non-treated wood. But we do recommend sealing all cut edges exposed to the weather with MøreRoyal® wood oil. Cut edges concealed in constructions do not need to be sealed, on the following condition: corner casings and constructions that cover or protect cut surfaces must allow plenty of air to circulate, to prevent any moisture from remaining inside the construction.

It is also important to state that there is a difference between durability in terms of quality and cosmetic appearance. Cosmetic appearance is subjective, and also depends on various climatic conditions. Pigmentation will also have different periods of cosmetic duration. No guarantees are therefore given concerning cosmetic appearance unless a manufacturing fault can be proven.

## **2. INSTRUCTIONS FOR CARE AND MAINTENANCE**

Wash the cladding at least once a year, preferably in the spring, to remove dirt and fungus. Remove dirt by hosing carefully with a garden hose without the use of chemicals. In the event of surface fungus, apply an antifungal agent before applying new oil with or without pigment.

Black fungus can appear, especially on natural cladding. This is quite common and does not reduce the durability of royal-impregnated materials. Most of the fungus can be removed using a disinfectant, but can reappear.

### **Inspection and minor maintenance:**

Inspect cladding and wooden roofs annually to determine condition and register/repair any damage.

### **MAINTENANCE INSTRUCTIONS AND INTERVALS:**

MøreRoyal® products have been treated with oil before delivery, and no more oil needs to be applied for the first few years. The natural product (RO.0) will gradually weather to become grey, while the pigmented products will be affected by UV radiation, which gradually make them paler. For cosmetic reasons, freshening up the pigment after a few years can be considered. When doing so, new oil is also applied to the surface, which helps maintain quality. We recommend applying a fresh coat of MøreRoyal® wood oil anyway after 10-20 years, to replace any oil that has been worn off or leached out, and to fully seal the wood to prevent moisture movement inside it.

When reapplying oil and refreshing the pigment, we recommend MøreRoyal® wood oil with or without pigment.

MøreRoyal® wood oil can be applied with a brush, broom or roller.

Resin deposits should be brushed or scraped off before applying new oil.

If changing colour, we recommend using a quality paint or stain. Please note that the surface treatment also changes some of the product's original properties. If painting, do not apply the first coat until 6 months after installation.

If any other colour than the original MøreRoyal® colours is required, we recommend applying the first coat, and then waiting 12 months before applying the top coat. This is to the copper impregnation soaking through. Pine is rich in resin, and resin deposits around knots can appear, which are particularly visible through light-coloured paints.

### **Damp-resistance:**

MøreRoyal® products are fully-oiled to reduce moisture movement in the wood. This improves dimensional stability compared to untreated wood. Standard impregnated boards will absorb water, expanding when it rains and contracting when it is dry.

### **Fastenings:**

To avoid unsightly stains, we recommend fastenings are made of A2 stainless steel or acid-resistant A4.

### **Recommendation:**

We recommend MøreRoyal® wood oil for use with MøreRoyal® cladding, roof and terrace boards (timber).

MøreRoyal® wood oil is the same oil we use when manufacturing MøreRoyal® timber products. With regard to the cosmetic appearance (colour match) and viscosity (penetration), MøreRoyal® oils are the only ones recommended for treating

cut boards, and subsequent maintenance.

### **3. EFFECT ON THE ENVIRONMENT**

Eco-labelling:

There is no eco-label for this product.

#### **Comments on effect on the environment:**

Oil-sealing reduces the emissions of the impregnation substance to a minimum.

5. Dealing with waste according to NS 9431

6. Technical service.

### **4. HSE REFERENCES**

Pressure-impregnated/MøreRoyal® timber products must not be used in direct contact with food and/or drinking water.

If cutting or machining pressure-impregnated timber in a manner that will cause a lot of dust, a type P2 dust mask must be worn.

See also 'HSE FACTS' with reference to the instructions in the Norwegian

Labour Inspection Authority's publications. Special measures for firefighting,

temperature and/or humidity changes etc.

See HSE FACTS.

The product contains a copper compound and a non-metallic biocide.

Waste type: Surface-treated timber products.

Waste handling: Incineration and energy production.

Origin—Industry: Building and construction

Code for waste handling: 1142 / 0400 / 0600 / - - -

#### **Cleaning and cleaning methods:**

Treat all cut ends with MøreRoyal® wood oil when laying. Other adaptation of the boards than cutting the ends can reduce service life. Royal-impregnated is pressure-impregnated in class AB. Constant contact with soil or fresh water can reduce lifetime. Impregnation does not normally prevent the occurrence of surface fungus. Fungus can grow on the surface, especially in shady areas where moisture can linger.

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