



**MoreRoyal®**

# **AOM DOCUMENTATION**

CLADDING AND WOODEN ROOFING

**NOBB module no.**

23533359, 60070677, 23534209, 23586365, 60070681, 60124570, 23586357, 60070688





## 1. PRODUCT DESCRIPTION

MøreRoyal cladding and wooden roofing is made from planed pine and comes in several variants and profiles. Our cladding is produced in accordance with NS-EN 14915, fire-tested and approved according to NS-EN 13501-1. It is supplied in class 1 according to SN/TS 3186.

In addition to being pressure-impregnated with a copper-based water-soluble salt impregnation, MøreRoyal is vacuum-dried in an oil bath. 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.

During the production process, pigment dyes can be added to the oil, resulting in pre-dyed materials ready for use without any further brushwork. The dyes we use in MøreRoyal are transparent, giving the materials new life and a visible wood texture. There will be differences in colour toning, as heartwood, sapwood and knots soak up the oil and pigments at different rates.

Pitch and sap deposits are a natural part of pine-based materials, and is part of the natural impregnation of pine. They can appear on the surface, especially on and around knots and heartwood. Resin deposits will be more visible the darker the colour is.

When timber is stacked, laths are laid between the layers. We do the same during production at MøreRoyal, which can mean that there are 'lath marks' left on fresh materials.

*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 B. Impregnation helps ensure that the timber has a longer service life.

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 Nordic 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.

### Advantages of MøreRoyal®:

- NTR-approved impregnation
- Wood protection to extend durability
- Protected by oil on all sides, giving stable material, reduced moisture absorption and fewer cracks
- Minimal leakage of impregnating fluid
- Low maintenance costs
- Lower total cost over product lifetime
- No peeling
- No microplastics
- Available in a range of colours

### Expected lifetime/service life:

It's hard to state an exact lifetime for royal-impregnated wood, as it depends a lot on the environment the construction stands in. Royal-impregnated timber will normally have a much longer lifetime than copper-impregnated timber, which in turn has a much longer lifetime than unprotected raw timber.

## 2. OPERATION AND MAINTENANCE

### Washing and cleaning:

Clean the materials with water or a mild cleaning agent that will not dissolve oil or grease, and use a hosepipe with water under normal pressure. Washing with other products is at your own risk. Chemicals, alkaline cleaning agents and other oil or grease-soluble products must be avoided, as they will break down the oil in the product.

All cut surfaces must be sealed with MøreRoyal Treolje. Cut surfaces covered in constructions are excepted. These 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. Other adaptation of the materials than cutting the ends can reduce service life.

Ensure that the products (class AB) are not in constant contact with the ground/water and remove any dirt regularly. Dirt will retain moisture and can reduce service life.

Impregnation does not normally prevent the occurrence of surface fungus. Black fungus can grow on the surface, especially in shady areas where moisture can linger. This is quite common and does not reduce the durability of royal-impregnated materials. Most of the fungus can be removed, but can reappear. Surface fungus can be brushed off using a broom, followed by rinsing with water. The appearance of fungus can be prevented using fungicides.

### Maintenance instructions and intervals:

Cladding and wooden roofing should be washed at least once a year, preferably in the spring, to remove dirt and fungus. Before applying a refresher coat of oil for maintenance, allow the materials to dry thoroughly, preferably a couple of days after being washed.

MøreRoyal cladding and wooden roofing has been treated with oil before delivery, and no more oil needs to be applied for the first few years. Vertical surfaces such as cladding, only need maintenance when required, but should be given a refresher coat of oil after 10-20 years. Use MøreRoyal Treolje, coloured or natural.

For maintenance, apply 1-2 coats of MøreRoyal Treolje according to how absorbent the wood is. Copper-impregnated and raw wood should be given two coats.

Natural MøreRoyal will weather to become grey over time, whilst pigmented wood will be affected by UV radiation and rain. The actual 'Royal' treatment ensures that the natural properties of the materials are retained, even though the dye may fade over time due to the effects of weather. How often you refresh dyed wood is therefore a matter of taste, but you should expect shorter intervals than for necessary maintenance.

MøreRoyal maintenance oils can be applied using a roller, brush or pad.

If the oil forms a film on the surface, there is a big risk that it will peel off later. Excess oil will also foster the growth of surface fungus. Always wipe excess oil off after application.

Resin deposits should be removed before applying new oil. Normally, resin will crystallise over time due to the wind and weather, meaning you can leave the job to nature. Resin and loose fibres can also be brushed off using a stiff-bristle plastic brush.

Royal-impregnated cladding meets requirements according to fire class E or D according to NS-EN 13501-1.

### Maintenance products:

MøreRoyal Treolje must be used for the maintenance of cladding, wooden roofing and cut surfaces. This is a maintenance product that has been thoroughly tested, documented and formally approved by Talgø.

Remember that you must prove that the right oil has been used in the event of a warranty claim and to maintain your warranty provisions. The use of other products is at your own risk.

### Moisture resistance:

MøreRoyal materials have been double-treated to help prevent warping, shrinkage, swelling and splitting. Because they are extra-protected against changes due to constantly varied temperatures and humidity, they will also splinter less. That does not mean that splitting and splintering will never happen. All natural wood reacts to its surroundings and even though MøreRoyal will split and splinter less than single-treated materials (such as copper), some effects can be expected.

### Fastenings:

Stainless steel A2 or acid-resistant A4 fastenings must be used for cladding and roofing in MøreRoyal. Acid-resistant A4 fastenings must always be used in maritime and salty environments.

Avoid combining Royal-treated timber in direct contact with base metals such as zinc and aluminium, as they can cause unsightly stains.

### Inspection and minor maintenance:

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

## 3. EFFECT ON THE ENVIRONMENT

### Eco-labelling:

- FSC
- PEFC
- EPD
- EcoProduct
- Grønt Punkt

## 4. HSE REFERENCES

MøreRoyal must not be used in direct contact with food and/or drinking water. If cutting or machining the timber in a manner that will cause a lot of dust, a type P2 dust mask must be worn.

## 5. WASTE HANDLING

*Waste handling in accordance with NS 9431.*

### ROYAL-IMPREGNATED TIMBER:

Waste code:	1142 TREATED TIMBER
Handling code:	0007 INCINERATION WITH ENERGY UTILISATION 0013 REUSE
Origin:	6000 BUILDING AND CONSTRUCTION

### PACKAGING:

<b>Laths</b>	
Waste code:	1141 CLEAN TIMBER 1142 TREATED TIMBER
Handling code:	0007 INCINERATION WITH ENERGY UTILISATION 0013 REUSE
Origin:	6000 BUILDING AND CONSTRUCTION

<b>Steel bands</b>	
Waste code:	1411 METAL PACKAGING
Handling code:	0014 MATERIAL RECYCLING
Origin:	6000 BUILDING AND CONSTRUCTION

Royal-impregnated timber is not defined in a hazardous waste category.





## 6. TECHNICAL SERVICE

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