

## **EC-311**

### **EFFECTIVE PROTECTION FOR WOOD, BASED ON NANOTECHNOLOGIES**

**Wood Protector, Water Repellent and Anti-swelling Nanocoating**

**Invisible protection, waterproofing, sealing, easy cleaning of Wood, MDF and Particle board Surfaces**

**Strong Protection Against Moisture**



#### **Product description:**

**EC-311** is an advanced nano coating solution that can be applied on wood, thermo wood, MDF and particleboard surfaces through the simple spray coating process. Through its latest hydrophobic coating technology, it protects wooden and wood-based surfaces from decay and air pollution by preventing water penetration into the wood surfaces that caused improving properties and also lifetime of wood. In addition, using **EC-311** helps in order to easy cleaning, stain removing and improving quality of indoor and outdoor surfaces of buildings. This coating also prevents the flaking and swelling of wood surfaces in the humid places such as bathrooms, kitchens and saunas. This coating is resistant to sunlight, yellowing, opaque and cracking.

#### **Features and Benefits of EC-311:**

- Strong reduction in water uptake
- Excellent water repellent
- Preserves wood by repelling water to reduce swelling
- For all wood types, thermo wood, MDF and particleboard surfaces
- Prevent water damages
- penetrates deep into the wood for BEST reducing water uptake
- Enhance wood durability against weathering and aging

- Prevent cracking, decay and erosion of wood
- Anti-bacterial, -fungal, -algae and –moss
- Suitable for the interior and exterior
- Retains natural breathability
- Non film forming, invisible
- Easy to apply
- Resistance to UV light
- Surfaces not rendered shiny or tacky, or caused to yellow

### **What surfaces EC-311 can be applied:**

- Wooden structures
- Pergolas
- Wooden garden furniture
- Wooden boats
- Wooden roofs and trusses
- Wooden fences
- Wooden floors
- Wooden surfaces with chemical-free paint
- Kitchen cabinets
- Bathroom cabinets
- Generally all wooden surface, MDF and Particle board Surfaces



### **Target Customers**

- Home owners
- Furniture retailers
- Hotels and restaurants
- Cruise ships and boats
- Military
- Sports clubs and hunters

- Community
- Wood product manufacturers
- Woodworker's supply stores
- Home supply stores

### Typical Product Data Property

Appearance	Clear liquid
Density, 25 °C	0.82 g/cm <sup>3</sup>
Flash Point	>38 °C
Method of Application	Ready-to-use / spray-brush-polish

### Processing

**Surface preparation:** Before coating, the surface must be clean and dry. Old and flaky paint (if there is) must be removed from the surface through sanding before coating the surface.

Before use, shake the solution container well.

Deposition method of this coating on various surfaces is by using the spray or brushes. The coating method of this product is quite simple, easy, economical and practical.

**EC-311** is ready to use. For raw surfaces, just apply the **EC-311** with brush or spray. Apply several coats, wet on wet, until the substrate is saturated. Generally, for optimal results, surfaces should be sprayed at least twice (wet-to-wet), depending on the absorbency of the surface you wish to protect. The process may need to be repeated.

After coating with **EC-311**, the surface takes 72 hours (at 20°C) to be fully cured. The time required for curing may vary depending on ambient temperatures.

### Industrial Application:

For economic use, you can use HVLP spray gun.

### Storage

2 years shelf life when stored in cool and dry place in closed containers at a temperature of 5-35 °C. Avoid solution contact with alkali, water and high humidity. The containers must be hermetically sealed.