



COATINGS FOR  
WOODEN HOUSE  
ROOFS AND OTHER  
OUTDOOR STRUCTURES





# [HYDRO PLUS]



The development of construction technology and the recent trends that use sustainable architecture and eco-compatible materials to build houses, now need roofs to help meet the requirements of energy saving, thermal and acoustic insulation, residential comfort, health and well-being.

Roofs are a major component in the design of a house and the decision to build them in wood offers major benefits. In addition to offering protection from the weather, wood is also extremely light and its insulation properties reduce temperature loss while letting interiors breathe to help control humidity. A wooden roof is also safe as its lightness and the elasticity of its load-bearing structure make it extremely resistant to seismic events.

Wood also offers aesthetic advantages that play an important role in interior design. Simply lift your head and you will be amazed by the cosy atmosphere that wood creates. And when combined with other materials it can blend perfectly with any architectural context too.

The roof is one of the parts of the house most exposed to the elements and changes in climate. As a construction material, wood has excellent mechanical and aesthetic characteristics, but it will deteriorate if exposed to rain, damp and sunshine. This is why long-lasting protection is required to combat weathering and ensure the wood remains completely efficient.



# PRESERVATIVE WOOD STAINS

# TOPCOATS

## **AM 631/XX Hydroplus**

**AM 631/XX Hydroplus is a clear waterborne protective stain for outdoor use** available in a wide range of colours and is ideal for coating gazebos, fences, wooden crates, balconies and wood panelling. It can be applied using an impregnator, brush or sponge. The product's brush application open-time also means that jobs can be easily resumed even after a pause. Its special acrylic resins seep into the wood to protect it extremely effectively, giving it a pleasant finish and highlighting the grain. **AM 631/XX** meets the requirements stipulated in standard **EN 71-3 - part 3** regarding the migration of heavy metals.

## **AML 3390/13 Hydroplus**

**AML 3390/13 Hydroplus is a white waterborne protective stain for outdoor use** that can be applied using automatic impregnators whose high dry residue provides excellent cover and filling. Thanks to its outstanding whiteness, **AML 3390/13** offers excellent durability and a superb aesthetic result. Ideal for conifer wood beams and wood panelling, the product is ready to use and can be applied in one or more coatings according to the degree of white you wish to obtain.

## **AZL 3497/00 Hydroplus**

**AZL 3497/00 Hydroplus is a waterborne topcoat for exteriors** that can be applied by immersion to wooden items located outdoors. This product allows complex and numerous items like balcony struts to be coated easily, rapidly and economically.

## **AZ 2330/86 Hydroplus**

**AZ 2330/86 Hydroplus is a waterborne topcoat for exteriors** that can be applied using a brush or spray gun to joinery, balconies, wood paneling, beams, cottages, fences, etc. **AZ 2330/86's** qualities of elasticity and durability are ideal for the outdoor wood protection sector. In addition to UV absorbers and radical scavengers, the topcoat also contains film preservatives that combat blue stain and wood rot fungi.

## **AZV 2317/00 Hydroplus**

**The clear, super water-repellent, waterborne topcoat H<sub>2</sub>NO is designed for outdoor structures**, such as gazebos, wall panelling, outdoor furniture and fences. As well as protecting the wood, the product also leaves its natural look unaltered.

**AZV 2317/00 Hydroplus** penetrates deep into the wood fibres forming a water-repellent layer. The topcoat allows the wood to breathe, letting out any moisture. This mechanism improves the product's durability over time and reduces the likelihood of attacks by micro-organisms.

**AZV 2317/00** is ideal for facilitating water run-off on vertical or slightly sloping supports. It can be applied to any Hydroplus series protective wood stain using immersion or a brush, an impregnator, a roller or low pressure airless type spray gun.





# SEALERS

## **XA 469/00 Hydroplus**

The beam ends, the external parts of the roof, are those most exposed to UV rays, weather and changes in temperature that may cause the structure to deteriorate and turn grey more rapidly. After installation, we therefore suggest applying the **Hydroplus waterborne acrylic sealant for beam ends XA 469/00**, that has a high level of water resistance that will limit water absorption from damp and rain and will protect the heads from UV rays by stopping them splitting and increasing their protection and life.

**XA 469/00** is easy to apply using a brush and extends the roof's life and maintenance periods. The product is ready to use and can be over-coated and coloured to the shade required using waterborne Sayerlack

**XA 4034/XX** clear iron oxide-based pastes or

**XA 2006/XX** waterborne pigmented pastes.

Maintenance should be performed using the protective wood stain **AM 631/XX** and the waterborne topcoat for exteriors **AZ 2330/86**.



The developments in the role of roof coatings are outlined in the UNI EN 460 standard regarding the durability of wood and wood-based products. This standard provides a guide for choosing which wood species to use for different risk categories according to a classification of natural durability. The standard also defines the types of treatment required:

| CLASSIFICATION OF WOOD DURABILITY (UNI EN 350-2)  |                                |   |   |  |   |
|---|--------------------------------|---|---|--|---|
| ITEM USAGE CLASSIFICATION (UNI EN 335/2006)   | 1. VERY DURABLE<br>TEAK, IROKO | 2. DURABLE<br>ENGLISH OAK, CHESTNUT, COMMON OAK | 3. MODERATELY DURABLE<br>LARCH, DOUGLAS FIR, WALNUT, PINE | 4. SLIGHTLY DURABLE<br>SILVER FIR, SPRUCE, HEMLOCK | 5. NOT DURABLE<br>MAPLE, POPLAR, BEECH, ASH |
| CLASS 1. WOODEN ELEMENTS LOCATED INDOORS OR UNDER COVER MAX HUMIDITY 20%                | SUFFICIENT NATURAL DURABILITY  | SUFFICIENT NATURAL DURABILITY                   | SUFFICIENT NATURAL DURABILITY                             | SUFFICIENT NATURAL DURABILITY                      | SUFFICIENT NATURAL DURABILITY               |
| CLASS 2. WOODEN ELEMENTS LOCATED INDOORS OR UNDER COVER HUMIDITY >20%                   | SUFFICIENT NATURAL DURABILITY  | SUFFICIENT NATURAL DURABILITY                   | SUFFICIENT NATURAL DURABILITY                             | PRESERVATIVE TREATMENT RECOMMENDED                 | PRESERVATIVE TREATMENT RECOMMENDED          |
| CLASS 3. WOODEN ELEMENTS LOCATED OUTDOORS, BUT NOT IN CONTACT WITH THE GROUND           | SUFFICIENT NATURAL DURABILITY  | SUFFICIENT NATURAL DURABILITY                   | PRESERVATIVE TREATMENT RECOMMENDED                        | PRESERVATIVE TREATMENT RECOMMENDED                 | PRESERVATIVE TREATMENT RECOMMENDED          |
| CLASS 4. WOODEN ELEMENTS LOCATED OUTDOORS, IN CONTACT WITH THE GROUND AND/OR SOFT WATER | SUFFICIENT NATURAL DURABILITY  | PRESERVATIVE TREATMENT RECOMMENDED              | PRESERVATIVE TREATMENT RECOMMENDED                        | PRESERVATIVE TREATMENT REQUIRED                    | PRESERVATIVE TREATMENT REQUIRED             |
| CLASS 5. WOODEN ELEMENTS, STABLE CONSTRUCTION, LOCATED IN SALT WATER                    | SUFFICIENT NATURAL DURABILITY  | PRESERVATIVE TREATMENT RECOMMENDED              | PRESERVATIVE TREATMENT RECOMMENDED                        | PRESERVATIVE TREATMENT REQUIRED                    | PRESERVATIVE TREATMENT REQUIRED             |

When coating wooden roofs the laminated beams are stained mechanically using an impregnator, brush or sponge. For wood panelling automatic impregnators are used. If the wood is heavily planed it is more difficult for the protective stain to penetrate as the surface is extremely smooth and the pores are closed. When planers meet obstacles they also tend to crush the wood's fibres, which makes it difficult to create an even colour. Finishes should therefore create a balanced, even effect.

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