

# TREATMENT FOR CHARRED WOOD PANELS

## DATA SHEET

### PRESENTATION

The CWT (Charred Wood Treatment) impregnates, fixes and protects the charred surface of the wood obtained by charring. This protective product makes the wood burnt, or Shou Sugi Ban, manipulable, without leaving traces of carbon on hands or clothing. It strengthens the surface carbon layer for protect it from bad weather (rain, wind, sun) and friction, thus preserving the charred aspect of origin durably.

For ease of use, the product is sprayable, facilitating its application on charred wood facades already installed.

Formulated in aqueous phase, this product is respectful of the environment and healthy for the applicator.

Unlike many coatings (varnishes, stains or paints) and especially those based on epoxy used for the protection of charred wood, the CWT has the advantage of being flexible and not brittle later.

Composed of an assembly of binders with complementary properties, the chemical nature of the main binder and the presence of anti-UV in its formulation ensure a maintenance of its flexibility over time. The dimensional variations of the support on which this CWT is applied thus have no impact on its qualities of the grip.

Combined with its high impregnation power, our CWT retains all its qualities of adhesion which allows it to adapt to wood movements when it is subject to high humidity variations. Thus, there is no unsightly aging caused by the deterioration of the coating itself.

### CHARACTERISTICS

Aspect :	Fluid	Spread rate	5 to 10m <sup>2</sup> / L per layer
Density :	1.02 ± 0.2	Accessories :	Brush, spalter or sprayer
Ready to use :	Yes	Cleaning :	With water after use
Number of layers :	2 to 3 layers	Composition :	Resins in aqueous phase
Odor after drying :	Odorless	Useful for :	Impregnate, fix and protect
Color / Rendering :	Colorless / Matte	Wood type :	Burnt wood, Shou Sugi Ban, Yakisugi
Drying :	24h to 48h depending support	Retention :	1 year free from frost and heat

### ADVICE

The carbon layer is very fragile in its raw state. We recommend applying the product gently to do not pull out the carbon. To appreciate the final rendering, do a pre-test on a fall or an area isolated.

In the case of spraying the product on a facade, consider using eye protection equipment and face.

## **OPERATING INSTRUCTIONS**

### **Destination / Support:**

Inside Outside. Charred wood.

### **Preparation**

Just make sure the charred wood is not covered with a film-forming finish beforehand.

### **Agitation**

Ready-to-use product. No dilution is necessary. Shake well before application.

### **Application**

Ready to use. No dilution requested.  
Shake well before application.

The CWT can be applied by spray or brush:

- Spraying (in the factory or on site): in 2 to 3 generous layers. The quantity of product to be deposited is a function of the porosity of the support.
- Brushing : apply 2 to 3 layers without pressing too hard on the brush to avoid damaging the charred surface. Wait 2 hours minimum between each layer, without exceeding 24 hours. Let air dry in the open air or in an oven.

Apply in 2 or layers using a sprayer or brush, taking care not to damage the surface charred. It is possible to wait 12 hours between each layer without exceeding 24 hours.

### **Drying**

Wait at least 24 hours before returning to circulation. Take a few precautions first days.

Drying time at 23 ° C and 50% RH: about 2 hours for 1 layer .

Ambient temperature, relative humidity, and porosity of materials affect the drying time.

### **Maintenance**

When the carbon layer begins to disintegrate under the effects of the weather, apply a new layer of product to enhance protection.

## **BENEFITS**

- Ready to use
- Sprayable at the factory
- Fast drying
- Carbon stain protection
- Good adhesion to the support
- Transparent, retains the original appearance
- Extends the aesthetic durability of the support
- Long lasting homogeneous aging
- Product in aqueous phase: comfort and safety of use, respect of the applicator and the environment

**Environmental characteristics:**

- Formulated in aqueous phase
- Not harmful to human health and the environment

**NATURAL AGING EVOLUTION OF OUTDOORS CHARRED WOOD WITH THE CWT**

**Visual assessment and surface condition after 7 months of exposure in real conditions.**

Inclined plane at 45 degrees, southern exposure.

Place of exposure: MONTPELLIER area – France.



Evolution on outdoor natural aging area.  
Charred wood protected with the CWT.

Initial state  
(with protection)



7 mois exposure  
(with protection)



Evolution on outdoor natural aging area.  
Charred wood not protected.

Initial state (without protection)



7 months exposure (without protection)



### Surface condition after 7 months of outdoor aging

Friction tests were carried out after 7 months trying to reproduce the contact friction of a garment to the substrate under standard conditions:

- Manual rubbing with a white cloth
- Dry substrate

Results:

The charred wood protected by the CWT does not leave a black mark on the cloth after 7 months. The substrate has a high resistance to friction and carbon stains.

## WARNING

Can cause cutaneous allergy.

Keep out of reach of children.

Read carefully this document before use.

Wear protective gloves, protective clothing and eye and face protection.

Wash hands thoroughly after handling.

Contains 1,2-benzisothiazol (2H) -one and 2-methyl-2H-isothiazol-3-one.

VOC Directive.

EU limit value for this product (Cat F): 130g / l (2010).

This product contains max 5g / l VOC.

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