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WOOD PROTECTION

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1. Product name

HOLZFREUND IMPREGNATING –W-MD COLORED series 681000

2. Description

Water based coloured wood-impregnating agent for exteriors

3. Main features

Impregnating agent based on special, high quality, water dilutable polymers, it contains IPBC. This series has been developed for the treatment of conifer wood windows, doors and frames. In flow coating, the excellent flowing qualities allow effective penetration of the product without raising the wood fiber. Bright, uniform colors, obtained with transparent iron oxides which, as well as not changing color through time, lengthen the life of the wood joinery as they are a very efficient absorbers of ultraviolet radiation, it ensures an excellent color harmonizing effect enhancing the natural beauty of wood. It can be over coated by water based and solvent based finishes. Not suitable for use on chestnut, oak, iroko and hardwood.

The product 681429 HOLZFREUND IMPREGNATING AGENT W MD HONEY, of the 681 colored series, passes the test "Growth inhibition test on agar PTP 136 of 2007, rev.0" This test is part of the CATAS - CQA Coating system for exterior wood

Microorganisms test	inhibition of growth	Presence alone inhibition
Coniophora puteana (brown rot)	YES	YES
Trametes versicolor (white rot)	YES	YES
Sclerophoma pythiophila e Aureobasidium pullulans (blue stain)	YES	YES

*214924/8 del 27/09/2016

4. Recommended use

Treatment of softwood windows and doors like pine, finger jointed pine, fir and pine lamellar or beams, cladding, canopies in the usage class 2 and 3, not suitable for wood in continuous contact or immersed in soil and / or water.

5. Technical data

Type	Internal method	Standard	Meas. unit	T Ref.	Value
Specific gravity	MS 018	ASTM D1475 ISO 28811-1;1997	kg/dm ³	23°C	1,00 ± 0,05
Solid content		UNI EN ISO 3251	% p/p		9 ± 2
Viscosity (cup DIN 2)	MS 013		Sec.	23°C	47-49*



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6. Application data

Color: ebony, dark oak, mahogany, chestnut, walnut, dark walnut, douglas, green, honey, light walnut, larch, oak, reddish walnut.

Theoretical consumption: 120 - 150 g/m², depending on the type of support and the application methods.

Practical spreading rate: the shape and properties of the substrate and wood moisture affect the consumption / yield. Accurate values for consumption must be obtained by applying trial coats in advance.

7. Application method

Thinning: product ready to use

Equipment: impregnating machines, flow coating, dipping or brush.

Preparation: the substrate must be clean, free from dust, dry capable of holding paint, free from separating substances as wax, grease, silicone, resin etc, as well as tested for suitability for coating application. All defective coatings should be completely removed. Any grey denatured exposed timber surfaces must be thoroughly sanded back to clean, bright timber. Organic growths must be removed and infected surfaces should be treated with a suitable fungicidal solution.

Number of coats: 1 coat as described above.

Application conditions: Do not apply if there is a risk of rain, or when air / substrate temperatures are below 8°C or above 25°C, or if the relative humidity is above 80% during application or drying periods. Protect from frost and rain until dry. Failure to meet these requirements may adversely affect the drying, visual quality and durability of the finish. In case of flow coating for a long time or with high ambient temperatures periodically check the pH value and balance the possible decrease with the solution for pH normalizing code 908006. In Summer time, if pH can't be controlled, it is recommended to add 0.2 - 0.3% of this solution every 40 minutes of use. In case of an increase of viscosity in consequence of evaporation (especially in summer) it will be necessary to adjust the viscosity with water.

Drying time: ready to handle in 20' - 40' at 23°C, 50% RH and good ventilation according to the type of wood. Stack the product through spacers, until total drying of the product, do not expose the objects outdoor before the full drying of the impregnating (24 hours, if the application conditions are adhered to).

Recoatable. minimum after 2 hours

Cleaning the work equipment: with water immediately after use.

8. Available colors

Ebony, dark oak, mahogany, chestnut, walnut, dark walnut, douglas, green, honey, light walnut, larch, oak, reddish walnut, other shade on request.

9. Storage indications

Store the product in cans not containing metals such as iron, copper, zinc, aluminium and their alloys. Shelf life: 8 months, provided the cans are kept sealed and undamaged, into a cool and dry place with temperature between 5 and 35°C. Susceptible to frost damage.



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10. Available packing

Standard packing 1/5/25 liters; for different needs, please contact us.

11. Safety precautions

For professional use only. For health and safety information, please refer to the relevant Material Safety Data Sheet.

12. Notes, warnings and other information

Given the large number of factors that influence the painting process and our inability to control the use of the product itself, we can accept no responsibility for the final result.

* parameters subject to testing for each batch.

NB: the product conforms to Law Decree 27 March 2006 n.161:

It belongs to category f) Impregnating non film-forming for wood

VOC value lower than legal limit

VOC legal limits are 140 g/l from 01/01/2010.

This Product Data Sheet has been written according to UNICHIM 1633 method

The information in this data sheet about the use of our products are based on our present scientific knowledge and practice. Zetagi accepts no commitment and / or responsibility on the final result of the work with our products. It is the customer's responsibility to verify the suitability of our products for the intended use. All the products and the advice given are subject to our general conditions of sale which we recommend you to request and read carefully. This data sheet replaces and annuls the previous ones: it is the user's responsibility to ensure that this sheet is updated prior to using the product. This data sheet is a translation; the Italian text of this document shall prevail over any translation thereof.