

# WOODPROTECTION

100% natural

Protects Wood Indoors and Outdoors against: Fire, insects (aggressive termites / Formosa), mold and fungal attack, UV radiation,

Fresh and salt water

tested and certified

50Years  
Warranty\*

G1

Fire protection for Interior wood

G5

Wood and Fire protection for indoor and outdoor

G7

Repairing and gluing Wood

100%  
Natural

harmless for  
humans &  
animals

irrevocable  
connection  
through  
mineralization

water -based  
without  
chemistry "anti  
allergen"

\*Warranty with application according to specification  
[www.greenwoodprotect.com/garantie](http://www.greenwoodprotect.com/garantie)

 green  
wood  
protect®

[www.greenwoodprotect.com](http://www.greenwoodprotect.com)



All our products contain no hazardous substances and have no negative effects on humans, animals, the environment or nature after the curing/ silicification process has been completed.

„REACH COMPLIANT“



**G5** Protects wood permanently after only 1 application against:



**Fire**



**Fresh and Saltwater**



**Insects**

also aggressive termites / Formosa



**UV-radiation**



**Mold/ Funghi**

## G5 greenwoodprotect

Laboratory test data

- + 100% natural ingredients
- + irrevocable connection with the wood fibers
- + 1 Coat (one Time)
- + waterbased
- + no hazardous substances
- + no volatile substances(VOC) ... „Anti Allergen“
- + all use classes 0-5
- + saliva proof (for Toys /Playtower, )
- + bee safe
- + significant increase of static stability of the wood
- + Water Protection (Fresh- und Saltwater)
- + UV – protection
- + Fire – protection
- + Termite – protection
- + Mold / Funghi –protection
- + 50 Years warranty

## Standard - Wood preservation

- chemical ingredients
- Surface coating
- 2 Coats (all 2-5 Years)
- Solvents (rarely water-based) several
- hazardous substances ( flammable/toxic)
- contains volatiles (VOC)
- not all classes of use
- not saliva-proof
- not bee-safe
- no change in the stability of the wood
- + water- protection ( mostly only fresh water)
- + UV – protection
- no fire -protection
- no termite -protection
- no mold / funghi – protection
- 5 Years warranty



# G5 - Example of Use

## Wood INDOOR:

Untreated interior wood can be permanently protected against external effects by a single impregnation with **G5** can be permanently protected from external influences.

Example of use: Roof trusses, Beams, Furniture, Floors, Doors, Insulating materials made of natural or Wood Fibers, wooden Walls, Worktops and many more..

**G5** protects Indoors from:

Fire, Fresh-Salt water, Mold, Fungal Attack, Insects ( e.g. aggressive Formosa Termites ) UV radiation.

## Wood OUTDOOR:

Untreated Wood outdoors can be permanently protected against external effects by a single impregnation with **G5** can be permanently protected against external influences.

Example of use: Wooden Houses, Garden sheds, raised beds, wooden and playground constructions, Boats, Bridges, Bank stabilization, pile Constructions/ Wood Terraces, Garden Furniture, Art Objects, Hiking Trail Elements, Benches, Flying Roof/ Carport, Hunting high Stand, Tailings , Fences, Fences Posts, Roof truss Construction and many more.

**G5** protects outdoors from: Weathering, Fire , Fresh, Salt-water, Mold, Fungal attack, Insects ( e.g. aggressive Formosa Termites ), UV Radiation.



# 100% NATURAL WOOD PROTECTION

**G5 greenwoodprotect®** is an inovative wood protection based on biological-inorganic Water.

After years of development we have found a way to protect wood from weathering,Fire.

**G5 naturally mineralizes the surface of the treated wood and forms an irrecovable bond with it.**

This reaction of natral substances is known from the „petrified forests (zB. in Patagonia).

Age over 250 million years.

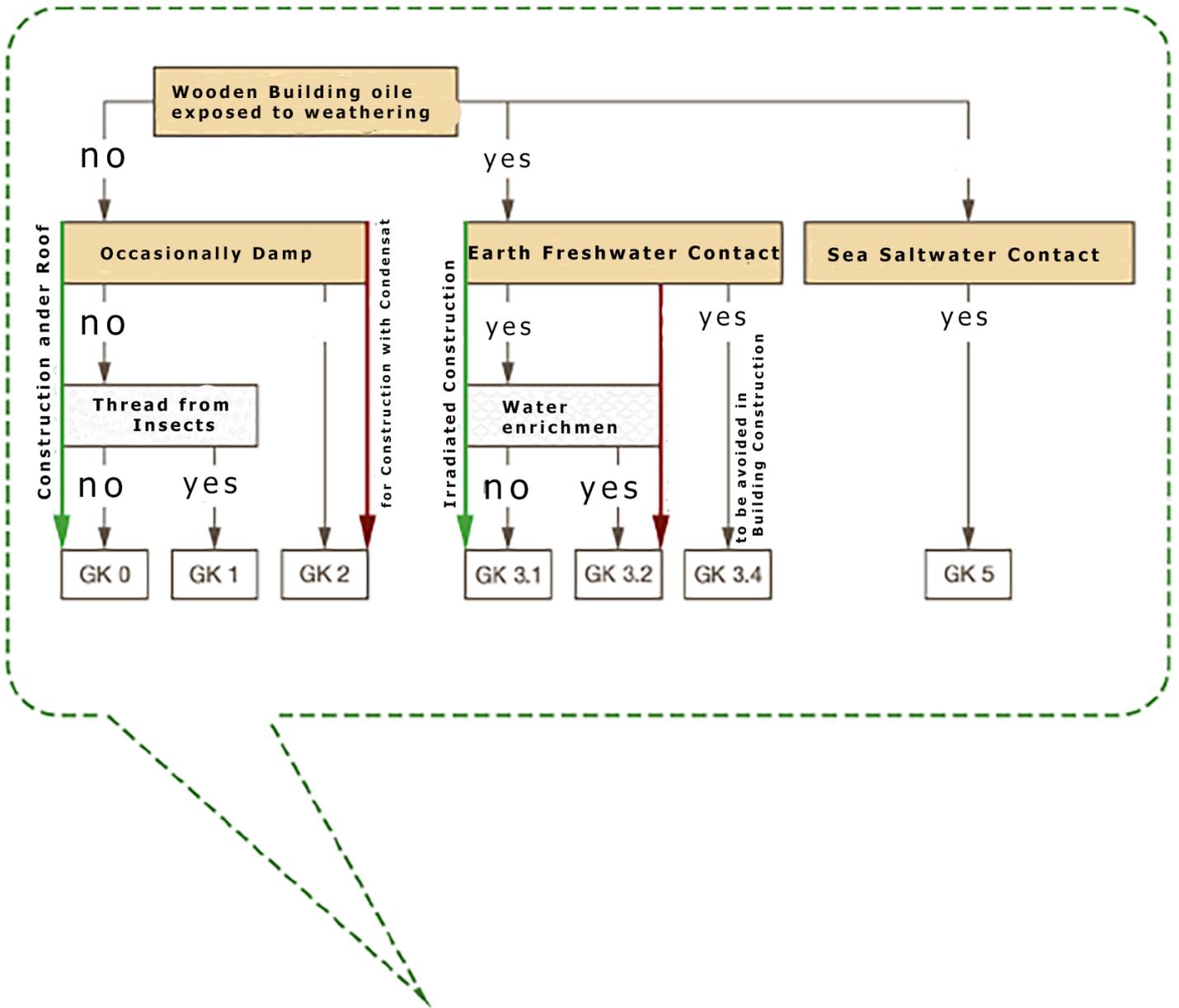


[https://de.wikipedia.org/wiki/Versteinerter\\_Wald](https://de.wikipedia.org/wiki/Versteinerter_Wald)

## **G5 greenwoodprotect®**

the 100% natural Woodprotection

# G5 - Classes of Use



**G5** protects wood  
in all classes of Use

**G5** Woodprotection = GK0 bis GK5

# G5 - APPLICATION

Professional application is carried out with :



Brush



Painter Roller



Sprayer



## Untreated Wood:

Apply to untreated wood that is rough to saw. If necessary, roughen slightly with sandpaper to facilitate the penetration of **G5** zu erleichtern. Application rate : 0,4 kg/m<sup>2</sup>

**One application is sufficient.**

## Treated wood :

First completely remove varnish / glaze or other materials to make the wood absorbent again, only then apply **G5**. Always do a self test..

After painting, allow impregnated wood to dry away from direct sunlight.

When drying, avoid contact of individual impregnated woods with each other to prevent them from sticking together. Pay attention to the absorbency of the wood.

Always do selftest.

Always observe the prescribed protective measures when processing greenwood products. (see instruction on the Product packing).



# **G5 greenwoodprotect®** the 100% natural woodprotection

By using G5, toxic or harmful or persistent chemicals and wood preservatives can be avoided in the treatment of wood. The product is purely mineral, binds CO2 and leaves no harmful substances in nature. It does not contain any solvents and is therefore emission-free (VOC-free) and allows problem-free application in closed rooms.

The application of **G5**  
is harmless for flora and fauna and  
bee safe!

(after completed curing/silicification process of **G5**)

## G5 - PRODUCT DATA

### Product features:

- 100% bio-inorganic water-based components
- "saliva safe" and "bee safe" (after curing/silicification process is completed)
- No VOC's (volatile substances) ... "Anti Allergen"
- increases fire resistance/fire protection
- 1 coat is sufficient (04 kg/m<sup>2</sup>)
- 50 years warranty\*
- UV resistant
- odorless
- transparent
- fast drying
- water repellent
- manufactured and filled in Austria.

### Mode of Action:

- Mineralizes the penetrated wood - **G5** an irrevocable bond is formed with wood
- Acts immediately after application
- Fibers remain breathable after application
- Significantly increases static stability of treated wood
- Binds CO<sub>2</sub>

Customizability for industry: adaptable depending on the area of applicatio(custom)

## G5- Warranty

# 50 Years Warranty\*

\*when used according to specification [www.greenwoodprotect.com/garantie](http://www.greenwoodprotect.com/garantie)

# G5 -Certifications

## Fire resistance:

**G5/G1** -Certification for fire resistance ( DIN EN 13238 / DIN 4102-1) by MPA Uni Stuttgart / 30 min. fire resistance (60 and 90 min. currently in final testing)

## Insektenschutz:

**G5** - Termites and insect protection certification

by the "University of Mississippi Forest and Wildlife Department of Sustainable BIOPRODUCTS" demonstrated 100% protection against aggressive Formosa termites.



**MFPA Leipzig GmbH**

Testing, Inspection and Certification Authority for  
Construction Products and Construction Types  
Leipzig Institute for Materials Research and Testing  
Business Division III - Structural Fire Protection



**MISSISSIPPI STATE UNIVERSITY™**

DEPARTMENT OF SUSTAINABILITY BIOPRODUCTS  
FOREST AND WILDLIFE RESEARCH CENTER  
COLLEGE OF FOREST RESOURCES



ALL COMPONENTS **REACH** COMPLIANT  
REGISTRATION, EVALUATION AND AUTHORISATION OF **CHEMICALS**

# G5 - CONSTRUCTION

Color GREEN

Only for structural wood in the non-visible area.

**G5 - CONSTRUCTION** Protects your wooden construction from :

Fire, insects (also against aggressive Formosa termites), mold, fungal attack, fresh and salt water, UV radiation

**Positive side effect:**

**G5 - CONSTRUCTION** significantly increases the static stability of the treated wood.



With **G5 - CONSTRUCTION**  
your timber construction  
becomes even safer,  
more stable and durable!

## G5 - Colors

Wood is not sunburned after impregnation with **G5** but gets the silver look due to natural aging. ( Properties depend on the natural lignin / pectin content of the wood )

### **G5 - Color (standard): transparent**

We will be happy to advise you personally on the possibility of color adjustments



**G5** forms an irrevocable bond with the impregnated wood. No flaking as with commercial varnishes.



Standard wood preservatives, such as varnishes (classic varnishes or modern powder varnishes) and glazes are based on linseed oils, alkyd resins, acrylates and other plastics. Due to the loss of elasticity, the wood paint on the wood surface becomes brittle, flakes off and quickly loses its protective effect. >>> Moisture penetrates into the now exposed areas of the wood, migrates behind the still intact wood coatings, increases the movement/deformation of the wood and thus accelerates the destruction process.

# G1 -FIRE PROTECTION FOR INDOOR USE



## Fire Protection for Indoor use

For untreated interior wood, fire resistance is given by a single impregnation with **G1** given. Can be painted over with non-combustible products after complete drying. (Fire resistance certificate of MFPA Leipzig and MFPA Stuttgart).

**G1** protects wood indoors from fire.

### APPLICATION EXAMPLES:

Roof trusses, furniture, floors, doors, insulation materials from natural or wood fibers, wooden walls, and much more.



**G1 greenwoodprotect®**  
is a natural and invisible wood  
preservative for interior use

# G7- REPARATURKLEBER FÜR HOLZ

## G7 glues and hardens damaged / dilapidated wood

### With G7

A wood repaired with G7, when properly applied, is harder than the treated wood after a complete drying time. The glued or repaired area is irrevocable. (waterproof, temperature and heat resistant) The fibers are coated >>> wood and G7 become one piece. REPAIR Application examples: Roof trusses with cracks/chips in the beams, etc.

Instructions: Mix G7 with sawdust as carrier/filler. First brush or spray the cracks/jumps with G7 and then apply the adhesive paste (G7 + sawdust) into the gap. Do a self-test. BONDING

Application examples: Glueing countertops, glueing wooden furniture, etc.

Instructions: Apply G7 liberally to both wooden elements.

During drying, pressure must be applied to the glued area. (Use clamps) Make self-test. CURING

Application examples: damaged / dilapidated wooden elements, etc.

Instructions: Apply G7 generously to the damaged wooden element and possibly inject it. During drying, pressure must be applied to the glued area. (Use clamps) With this technique, they repair wood and prevent further decay.

Make self-test.

### Self test in lab

wooden beam cracked

several times was repaired:

1) light brown: coarse sawdust + G72)

2) brown: medium sawdust + G73)

black: fine sawdust + G7 Result: all

glued areas are many times harder

than the wood and irrevocably bonded

to it.





**G** - products are a development of the VC Design GmbH  
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