



A product by **VC Design GmbH**  
Vienna. Produced and certified  
in Germany.

Testurteil: „**Sehr gut**“



Konform mit:



# WELCOME!

**G5 wood protect®** is an innovative, organic, water based fibre protection product. Trough years of developement and testing we created **G5®**, a way to protect wood and other natural fibre products against fire, water, mold and fungal attack, insects and UV radiation.

**G5®** permanently mineralizes the surfaces of the treated products in a natural way. It is free of any harmful substances for people, animals and environment.



## HIGHLY EFFECTIVE THROUGH PERMANENT MINERALIZATION OF THE SURFACE.

**A one-time-usage** already impregnates und protects permanently against:



**Fire**



**Sweet & salt water**



**Mold**



**Insects** (termites)



**UV radiation**

All „G wood protect®“- products  
are **REACH** - compliant



## G5® – SCOPE OF APPLICATION

### Wood and natural fibre products - Indoor:

G5® permanently protects untreated wood and natural fibre products **indoor** such as:

• **Roof trusses, wooden bars, furniture, wooden floors, doors, natural fibre and wood insulations, wooden walls and counter tops etc.**

Mainly interesting for indoors is the G5® protection against:

**Fire, Water, mold and fungal attack.**

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### Wood and natural fibre products - outdoor:

The same applies for untreated wood and natural fibre products **outdoor** such as:

• **Wooden houses, sheds, boats, wood and playground constructions, natural fibre roofs** (straw, palm- or banana leaves etc.), **wooden roofs, outdoor furniture, fences, terraces, art objects etc.**

Mainly interesting for outdoors is the G5® protection against:

**Fire, insects** (especially termites), **mold and fungal attack, (sea)water and UV radiation.**



## G5® - APPLICATION

### **Appropriate ways of application through:**

1. Application with paint brush or roller
2. Spray painting
3. Pressure impregnation

The necessary amount of G5® needed for proper impregnation depends on the absorbency of the wood/fibre product. Usually around 0,33kg per square meter. Hardened wood needs more time for absorption. The longer the wood is exposed to G5®, the deeper the penetration. After treating the wood with G5® let it dry completely without direct exposition to the sun. Avoid contact between treated wood pieces.



**G5® significantly increases the static stability of the treated wood.**

# SPECIFICATIONS



## Product features:

- Water based made of 100% organic components
- Transparent
- Odorless
- Fast drying
- No VOC's (volatile substances)

## Mode of action:

- Mineralizes surfaces
- Works immediately after application
- The fibres remain breathable after processing
- Increases the static stability of the treated wood
- Binds CO<sub>2</sub>

## Individualization:

- Available with various additives such as color pigments
- Level of protection can be adjusted according to the area of application



**The product does not contain any harmful substances and has no negative effects on the environment.**

## ENVIRONMENTAL PROTECTION WITH G5®

By using “G5®” it is possible to dispense with toxic, harmful or persistent chemicals and wood preservatives. The product is purely mineral, binds CO2 and does not leave any harmful substances in nature. It works without solvents, is therefore emission-free (VOC-free) and enables problem-free use in closed rooms. The outdoor use is harmless to flora and fauna (including bee-safety).



Photo: @kai\_wenzel unsplash

# CERTIFICATION

**G5®- Fire resistance certification ( DIN EN 13 823 / EN 13 823 )**

Through MBA University of Stuttgart / 30 min. fire resistance  
(60 and 90 min. are being teststed)

**G5®- Certification for termite and insect protection**

Through "University of Mississippi - Forest and Wildlife Department of Sustainable  
BIOPRODUCTS"  
(100% protection against formosa-termites)

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## In progress:

**G5- Certification** for sea water resistance

**G5- Certification** for UV radiation resistance

More certifications and G-wood-protect®- products are in  
preperation.

## TEST- EXCERPT (UNIVERSITY MISSISSIPPI)

Excerpt from the termite test report **without G5® impregnation**

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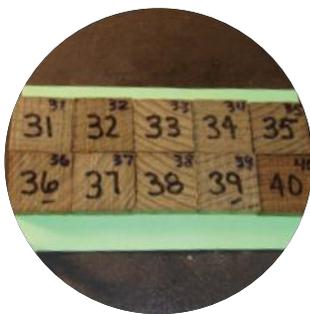
**Img.1:**  
Test objects before  
exposure to  
C. formosanus



**Img.2:**  
Test objects after  
exposure to  
C. formosanus

Excerpt from the termite test report **with G5® impregnation**

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**Img.3:**  
Test objects before  
exposure to  
C. formosanus



**Img.4:**  
Test objects after  
exposure to  
C. formosanus

Successfully tested for spruce, fir and pine.

## Excerpt from fire resistance test university Stuttgart

FDP (f > 10s)	No
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### End of test conditions

Light transmission (%)	99,7092
X O <sub>2</sub> (%)	20,9406
X CO <sub>2</sub> (%)	0,0316

### Recorded events

Surface flash	No
Falling of specimen parts	No
Droplets <10s	No
Droplets >10s	No
Smokes not entering hood	No
Mutual fixing of backing board fails	No
Conditions justify early stop of test	No
Tendency distortion/collapse	No
Excessive RHR	No
Excessive temperature	No

Estimated Class:

**B-S1,d0**

