From ancient history to modern miracle: Greenwood Protect successfully replicates wood petrification

Friday, January 16, 2026

For centuries, woodworkers and builders have looked at the fossilized logs in places like Arizona's Petrified Forest National Park with a sense of awe. These ancient trees, preserved for millions of years, have been transformed by nature into solid, stone-like substances through a process known as petrification. In nature, this replacement of organic materials with minerals takes millennia.

But what if you didn't have to wait a million years to achieve that level of durability?

In a groundbreaking development coming out of Austria, **Greenwood Protect** has announced the successful reproduction of this geological process. This isn't just a minor update to existing varnishes or sealants; it is a fundamental shift in how we approach material science. By accelerating the natural petrification process, Greenwood Protect has opened the door to a new era where wood can possess the resilience of stone while retaining its natural beauty.

Introducing G5: The Alchemy of Wood

The core of this innovation is the **G5 product**. Unlike traditional surface treatments that sit on top of the timber, G5 is a water-based solution containing silicates. When applied, these silicates penetrate deep into the wood fiber.

Once inside, the magic—or rather, the science—begins. The solution initializes an accelerated petrification process. The silicates bond with the wood structure, crystallizing and effectively turning the timber into a fossilized version of itself. Crucially, this process is **irreversible**. The silicates do not leach out over time, meaning the protection is permanent.

Unmatched Durability: "Only Destroyed Mechanically"

For the furniture maker or construction firm, the implications of G5 are staggering. Wood treated with this technology gains an almost superhero-like list of resistances.

Standard timber is vulnerable. It rots, it burns, and it is a feast for insects. However, wood treated with Greenwood Protect's G5 is protected against:

- **Biological threats:** Termites, worms, mold, and mushrooms are repelled.
- **Environmental threats:** It stands up to UV radiation, fresh water, and even the corrosive effects of sea water.
- **Fire:** The mineralization process grants significant fire resistance.

Perhaps the most striking claim from the manufacturers is that this petrified wood can "only be destroyed mechanically." It won't rot away; you would have to physically break it.

Safe for Humans, Safe for Nature

In the modern woodworking industry, performance cannot come at the cost of health or the environment. We have moved past the days of soaking railroad ties in toxic creosote.

Greenwood Protect has ensured G5 meets the highest safety standards. The product is **certified by the University of Stuttgart in Germany and the University of Mississippi in the USA**, confirming it conforms to all EU norms.

It contains **no chemicals harmful to humans or animals**. In a delightful detail for eco-conscious landscapers and gardeners, the treated wood remains **bee-friendly**, ensuring that while it repels pests like termites, it does not harm our essential pollinators.

A Revolution for the Industry

The potential applications for G5 are limitless. In house construction, it offers the structural integrity of timber with the longevity of masonry. For outdoor spaces—decks, pergolas, and garden furniture—it promises an end to the yearly ritual of sanding and resealing.

As we look toward more sustainable building technologies, the ability to make a renewable resource like wood last indefinitely is a game-changer. Greenwood Protect has not just created a product; they have successfully bridged the gap between the organic warmth of wood and the eternal endurance of stone.

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