



Fu|tu|re|proof

Term for versatile usable material
fulfilling the technical and ecological
demands of tomorrow already today.

Futureproof

- 100 % wood-free • minimal maintenance required • weather resistant • water resistant •

Resysta is 100% Wood Free

Already today, Resysta meets tomorrow's technical and ecological demands. Owing to its water resistance and sustainability, completely new designs are possible. The fibre reinforced hybrid material is composed of 60% rice husk, 22% common salt and 18% mineral oil, which makes it environmentally friendly on the one hand, as well as extremely weather resistant against rain, snow or salt water on the other hand. At the same time, Resysta requires minimal care and offers the look and feel of wood. Water resistant surfaces with the look of wood are Resysta's future. Wait and see!



- dimensionally stable • swell-free • crack-free • splinter-free • rot-free • recyclable





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»Resysta ist extremely resistent and provides for an especially beneficial eco-balance«

Technical and ecological assessment of the new material Resysta.

Resysta **looks like wood** and offers high mechanical strength, thermal stability as well as chemical resistance. Unlike wood, Resysta is **swell-, splinter- and crack-free**, **does not grey or fade** and **withstands fungal decay**. Products made of Resysta are therefore **very durable** without requiring special care and maintenance. This material is a **real alternative to tropical wood**.

Owing to these characteristics, Resysta is especially suitable for outdoor use, e.g. it can work for garden furniture, outdoor flooring, as well wellness and pool areas. Simply everywhere, high strain and aggressive weather and environmental influences become effective.

Furthermore, products made of Resysta provide for an **especially beneficial eco-balance**. In terms of hygiene, Resysta also offer superior characteristics, as it is not harmful to health and does not emit noxious substances into its surroundings. Like most synthetic materials, the polymeric material part of Resysta is made of petroleum. Therefore, only a minute quantity of crude oil is necessary. Both components of Resysta, the polymeric material as well as the reinforcing fibre, are **100% recyclable**, as the thermoplastic material can be transformed into other products as necessary. These results show that relatively, Resysta provides for an **especially beneficial eco-balance**, which is further enhanced by its durability, **low maintenance** and the absence of insecticidal and fungicidal preservatives. In short: **Resysta deserves the title »The better wood.«**

Prof. Dr. Karl Stetter Diplom-Chemiker

Specialist in varnishes, surface coating compositions, wood preservation, adhesives and their effect on the environment as well as interior harmful substances:
Officially appointed and authenticated by the Chamber of Commerce and Industry for Munich and Upper Bavaria


(Professor Dr. Stetter)



The Future Formula is called Resysta.

Owing to its unique formula, Resysta surpasses its natural model wood in all aspects:

Resysta. The better wood.



60 % rice husk + 22 % common salt + 18 % mineral oil = 100 % Resysta

Resysta patent pending



When extruding, it is possible to produce square or rectangular, round, oval as well as any kind of special profiles.

The Resysta mixture is being extruded in different profile shapes. Subsequently, those profiles are further processed like wood.



Resysta Stands Out

All Resysta components are mixed in a so-called extruder. At the end of this machine you can find a forming instrument, which produces the different profiles. These profiles can then be processed like wood.

»The better



Drilling, painting, oiling, sanding - Resysta profiles are processed like wood in a joinery. Off-cuts and waste are 100% recyclable. Resysta is not subject to any fluctuations in volume due to humidity and therefore perfectly suitable for surface treatment.

processed bet

wood « can be



ter than wood.





One Material, Endless Possibilities.

Water resistant, sustainable and almost identical to tropical wood - all these characteristics open a variety of possibilities in applying Resysta. Outdoor furniture, floor coverings and decks of ships are just the beginning. Further examples, where Resysta can be applied in future are house facades, wellness areas and dashboards. However the future will look like - it is made with Resysta.





With Water, Resysta is in its Element

Resysta is absolutely wood free. Owing to its component of riced husks, which do not absorb any water, this material is consequently also water resistant. With all these special characteristics Resysta withstands weather influences like rain, snow or even salt water. Moreover, Resysta is swell-, crack- and splinter-free - this we guarantee for 15 years.



Resysta at a seaside pier installed in 2001. Neither more than a million passengers
nor salt water can harm Resysta.

15 YEARS GUARANTEE

- swell-free
- crack-free
- splinter-free
- rot - free

Resysta®
THE BETTER WOOD



Timeless: a Resysta roof-construction
installed in 2003.

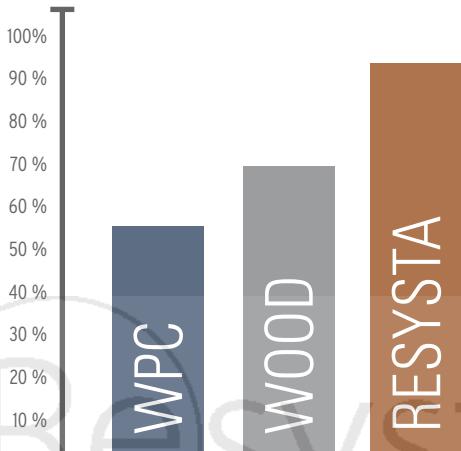


A Long Alliance

Resysta has been constantly tested in different climatic zones for more than 10 years. Architects, city and landscape planners as well as hoteliers (Shangri-La, Four Season and many more) are convinced. **Resysta passes the test!**



RESYSTA CuSa 2008



Customer Satisfaction Index 2008





Minimum Care, Maximum Look

Resysta is sophisticated, as far as its look is concerned, but not very demanding in maintenance. **The fibre reinforced hybrid material is absolutely water resistant.** Owing to its water resistance, cracks and splinters are a thing of the past. Also insects and fungi cannot harm Resysta. In terms of maintaining Resysta, the most important thing is: lean back and enjoy!



Design without Limits

Dramatic, flowing curves, floating - with Resysta, design limitations are a thing of the past. However, one does not have to do without the look and feel of wood. Resysta can be processed like normal wood on the one hand, but also be applied in layers on aluminium constructions. The resulting light and dynamic shapes open a new horizon in designing outdoor furniture. **The most beautiful example: the rolling, stackable »Bow« Lounger.**

Our products are regularly tested by TÜV (German Control Board) and Bureau Veritas.





Loving
my Resysta!

Floor coverings made with Resysta are skid-proof, which makes them especially suitable for wet areas.

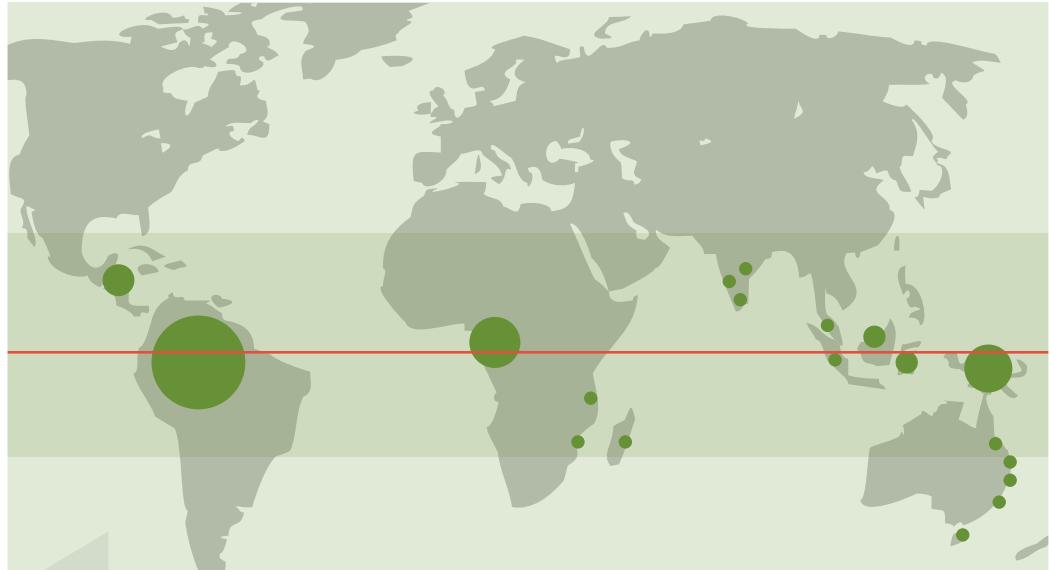


A Good Feeling with Resysta

Resysta does not only look like wood - it also feels like it. In order to achieve the typical »wood feeling« its surface is slightly roughened. To touch Resysta does not only feel good, it also surpasses nature's model in this respect. Thanks to its special composition, the surface stays free from cracks and splinters in the long term. Injuries caused by wooden splinters are therefore a thing of the past. Even after year, the future material ensures agreeably feeling.



Orang Utans »forest man« are among the most endangered species worldwide. Resysta stands up for the protection of these wonderful animals.



It is time for Resysta. every minute of every day thousands of square meters of the tropical rain forests are cleared forever.





Our Green Lungs Give a Sigh of Relief

Around the globe, interrupted only by the great oceans, a wide belt of primeval forest covers our earth - the tropical rain forests. They are home to innumerable, partly unknown kinds of plants and animals. Our »green lung« stores a huge amount of carbon dioxide and are essential in order to maintain climate. Saving the tropical rain forests is easier said than done, as long as the demand for tropical woods is still increasing. With Resysta, everyone can contribute to the protection of the rain forests, since it is absolutely wood free - not a single tree needs to fall for it.

For more information please go to www.resysta.de

Only a few Amur leopards
are still living in the Chinese and Korean
forests.

MATERIAL	Vinyl polymer with organic contents Homogenous extrusion				1C
RAW MATERIALS USED	Rice husks Mineral oil Common salt	approx. 60 % approx. 18 % approx. 22 %			
MATERIAL CHARACTERISTICS			Chemical Resistance Fire behaviour Emmission		
Thermal Conductivity		ca. 0,14 W/(mK)		LGA tested (requirements fulfilled) Formaldehyde emission	< 0.01 ppm
Density		ca. 1200 kg/m ³		PCP (pentachlorophenol) TeCP (tetrachlorophenol)	< 0.5 mg/kg
Humidity behaviour	Low to no humidity absorption or dimensional change			DEHP (Di-ethylhexylphthalate)	< 0.05 %
Water absorption behaviour	Low to no absorption of water or dimensional change			BBP (Benzylbutylphthalate)	< 0.05 %
Extension stability	Screw extension stability according to EN 320 Extraction force axial Extraction resistance axial	4202 N 280 N/mm ² 3.6×10^{-5} 1/K		DPB (di-n-butylphthalate)	< 0.05 %
Temperature influence	Linear thermal coefficient of expansion		PROCESSING		???
			Work Surface treatment	Like wood with wood processing machines Cutting, milling, drilling, sanding, gluing, screwing Applying glazes, varnishes and oils with brush, paint roller or spraying	



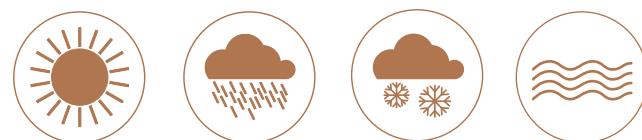
RESYSTA Think Tank

With Resysta, everything is possible - from Jacuzzi coatings, to toys and bicycles. Resysta Think Tank is always looking for new ideas. If you want to know, how you can realize your ideas, please go to

www.resysta.de



The Future is made with Resysta.



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