



Some miracles happen,
some are invented.

Vision

Resysta®
THE BETTER WOOD

- ▶ Replace the use of tropical and chemical treated wood with Resysta



Wood has a lot of disadvantages in nearly all aspects



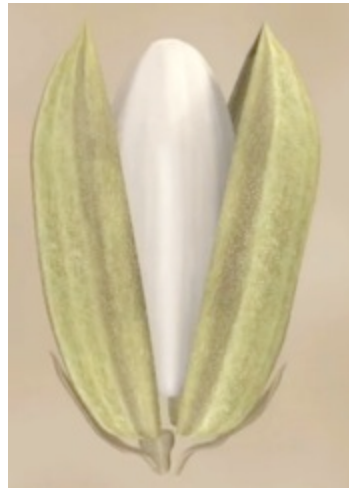
Wood:

- Splinters and cracks
- Does not maintain original colour, greys over time
- Natural cell structure (lignin) results in water absorption
- Moisture results in deformation
- Rots and is prone to fungal decay
- Is time consuming and expensive to maintain
- Not a sustainable resource, especially tropical hardwood



We solve this problem with Resysta

Resysta®
THE BETTER WOOD



- Basic ingredient of Resysta is High Concentrated Nature Silica
- Nature Silica can be extracted from plant fiber

What is Resysta?



More than 100,000,000 metric tons of rice hulls (or “husks”) are generated each year throughout the world¹:



Rice husks

Salt

Oil

+ plus 14 further high-quality additives

= secret Resysta formula

1. See Velupillai, L., Mahin, D.B., Warsaw, J.W., and Wailes, E.J. 1996. A Study of the Market for Rice Husk-to-Energy Systems and Equipment p. 15.

Secret formula is protected
through IP and know-how



- **Patents**

- Patent application on formulation submitted in January 2010
- Patent attorney Heisse Kursawe Eversheds (Germany) positively analyzed the patent situation: “Resysta will pass the patent process with high probability”
- Coller IP (UK) also analysed the freedom to operate and patent space: result was low risk of patent infringement
- Patent approved for Singapore, Japan and United State as of 2014, EU in 2015 and many countries will follows

Most importantly Resysta has been extensively tested and has been proven in the field for over a decade, a strong barrier to entry for potential competitors

“Marriage” process



Some miracles happen... some are invented

The key of the Resysta invention is the **“marriage” process** between the natural fiber and the polymer:

- A complex procedure (PTRH-Technology) enables us to treat the rice husk so that this marriage process can take place providing Resysta with its unique properties.

(Since the 60’s Japanese companies tried to mix rice husk and polymer but never came up with a sellable product)

- Resysta is a unique material with polar properties



How is Resysta produced?



Compound



Extrusion / Injection process



Profiles



Boards / Sheets



Resysta[®]
Folie ...FÜHLT SICH AN WIE HOLZ



RESYSTA FOIL ...FEELS LIKE WOOD

What makes Resysta unique and superior?



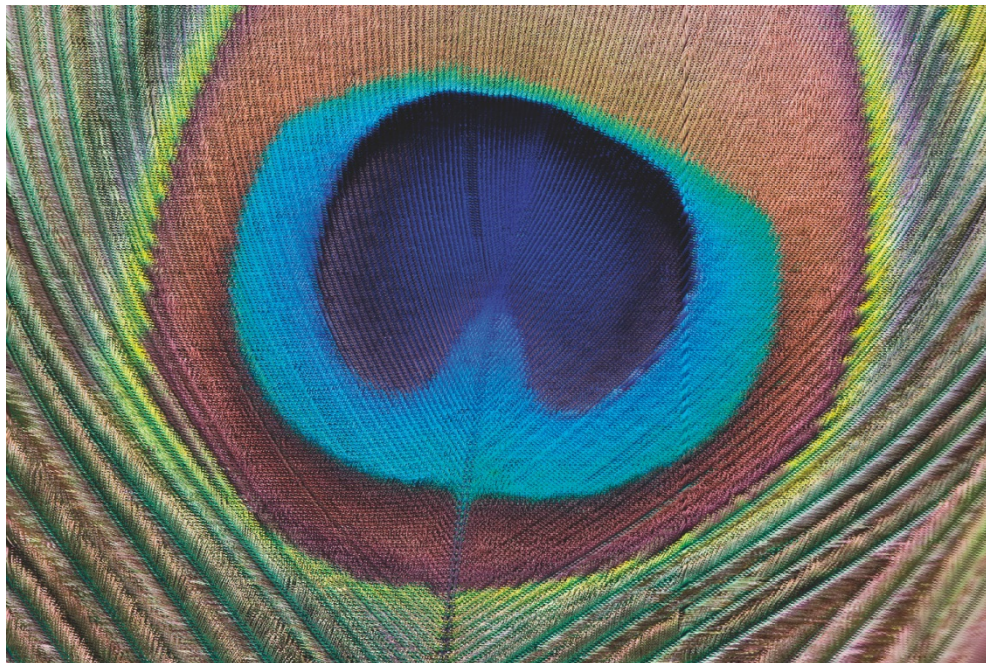
- Looks and feels like high quality wood
- Water resistant
- Exceeds many times the wood lifetime
- Workable like wood and even more possibilities
- 100% recyclable
- Sustainable raw material
- Price is lower than hard wood
- High UV resistance



One material – any colour you like



Resysta Colour Concept – Resysta can be stained in any colour

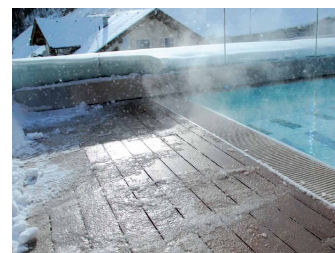


Resysta can be easily extruded into
a large variety of products

Resysta®
THE BETTER WOOD

Applications of Resysta are

- Decking
- Siding
- Wall cladding
- Windows
- Panelling
- Waterproof flooring
- Outdoor furniture
- Marine applications (interior, exterior)
- Shutters
- Fencing
- Railings
- Doors
- Sandwich boards
- And many more possibilities



Furniture MBM Germany

Resysta®
THE BETTER WOOD



Amur Lounge, MBM



Caigo, MBM



Brazil, MBM



Furniture
GO IN Germany

Resysta®
THE BETTER WOOD



Go In

GO IN 



Go In

Furniture
SATELLIET

Resysta®
THE BETTER WOOD



Furniture
Summer Classics

Resysta®
THE BETTER WOOD

SUMMER CLASSICS



Resysta Bathroom

Resysta®
THE BETTER WOOD



REINA EX - Vanity Counter Set, 2-Levels

ZEN871 - Countertop Washbasin
650 x 370 x 150 mm

BBR102 - Wall-mounted Vanity Counter 2-Levels
1200 x 500 x 550 mm

WT002.1 - Wall-mounted Tray
600 x 200 x 70 mm

Finished projects around the world
Nazareth, Israel 2011



Finished projects around the world Berlin, Germany 2010

Resysta®
THE BETTER WOOD



Finished projects around the world
Hong Kong, 2006

Resysta®
THE BETTER WOOD



Finished projects around the world Hoh Chi Minh, Vietnam 2011

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Finished projects around the world

Miami, USA 2011

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Resysta Marine Deck, USA, 2011



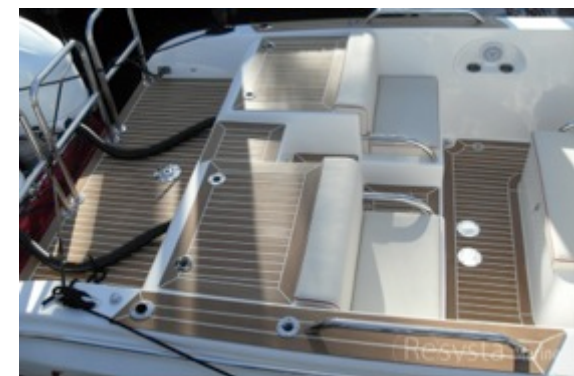
Resysta Marine Deck, USA, 2011



Resysta Marine Deck, USA, 2011



Resysta Marine Deck, USA, 2011



Resysta Marine Deck, USA, 2011

Finished projects around the world

Meran, Italy 2012

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Quellenhof**** – Meran, South Tyrol



material used: RESYSTA DKG 12522

amount in square meters: 1200

color shade: FVG C24

year of construction: 2010

climate: alpine

Finished projects around the world Weston, USA 2011

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THE BETTER WOOD



Private Villa – Weston, Florida



material used: RESYSTA DKG 12522

amount in square meters: 260

color shade: FVG C08

year of construction: 2011

climate: tropical moist

Finished projects around the world

Miami, USA 2010

Resysta®
THE BETTER WOOD



Penthouse – Miami Beach, Florida



material used: RESYSTA DGK 12522, RESYSTA FPS 7020, RESYSTA RUH 7038

amount in square meters: 110

color shade: Resysta untreated with 2K sealer

year of construction: 2010

climate: tropical moist

Finished projects around the world University of British Columbia, Canada

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Current projects
Bridge Middle East, 2013



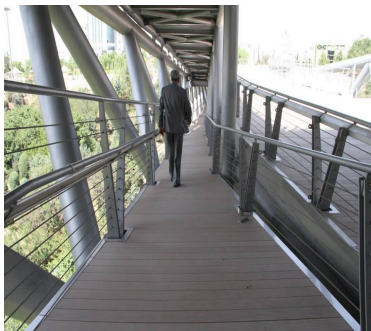
Bridge Middle East
amount in square meters: 6.000



Current projects

Bridge in Iran, 2014

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American School - Greece



Current projects
Kitzbühel, Austria, 2011

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Current projects
Igersheim, Germany, 2013



Facade project Wittenstein,
Germany
amount in square meters:
1500



Current projects
Chick-fil-A, USA

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Current projects Starbucks Coffee, USA

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Star Bucks, Brooklyn, USA, 2011



Resysta® Facade



Star Bucks, Manhattan, USA, 2013



Resysta® Facade



Star Bucks, Chicago, USA, 2012



Resysta® Facade



Star Bucks, USA, 2014

Resysta® Facade

Especially beneficial eco-balance



»Resysta ist extrem resistent und 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 be worked for garden furniture, outdoor flooring, as well as 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 Chemist with diploma

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



Resysta material was comprehensively tested by leading institutes



Resysta was tested in accordance to German, British and European Standards at renowned institutes such as



Many awards confirm revolutionary properties (examples)



reddot design award
winner 2012

- red dot award 2012: Resysta Marine awarded with one of the most important prizes worldwide in the category “product design”

DETAIL
Zeitschrift für Architektur - Stuttgart - Neben- und Nebensachen - Forum für Architekten

- DETAIL 2011 - renowned architectural magazine: winner of the product competition in the construction material category

dwell
ON DESIGN

- Dwell 2011 – large design show: Dwell on Design Award for excellence in the category “Design material”

AIT

- AIT 2011 - renowned architectural magazine: Award in the category “Sustainability”

Many awards confirm revolutionary properties (examples)



- agraME (Middle East) Award 2014: winner in the category Best New Product for Gulf Market- Landscaping



- Financial Times 2013: winner in the category "Sustainable Investment of the Year"



- MaterialPREIS 2013: winner in the category "Innovation" materials

Resysta is LEED qualified (Leadership in Energy and Environmental Design)



RESYSTA can contribute points as follows:

Materials & Resources

MR Credit 6 “Rapidly Renewable Materials” – Up to 1 point

*MR 5 (based on project location and production location) – Up to 2 points

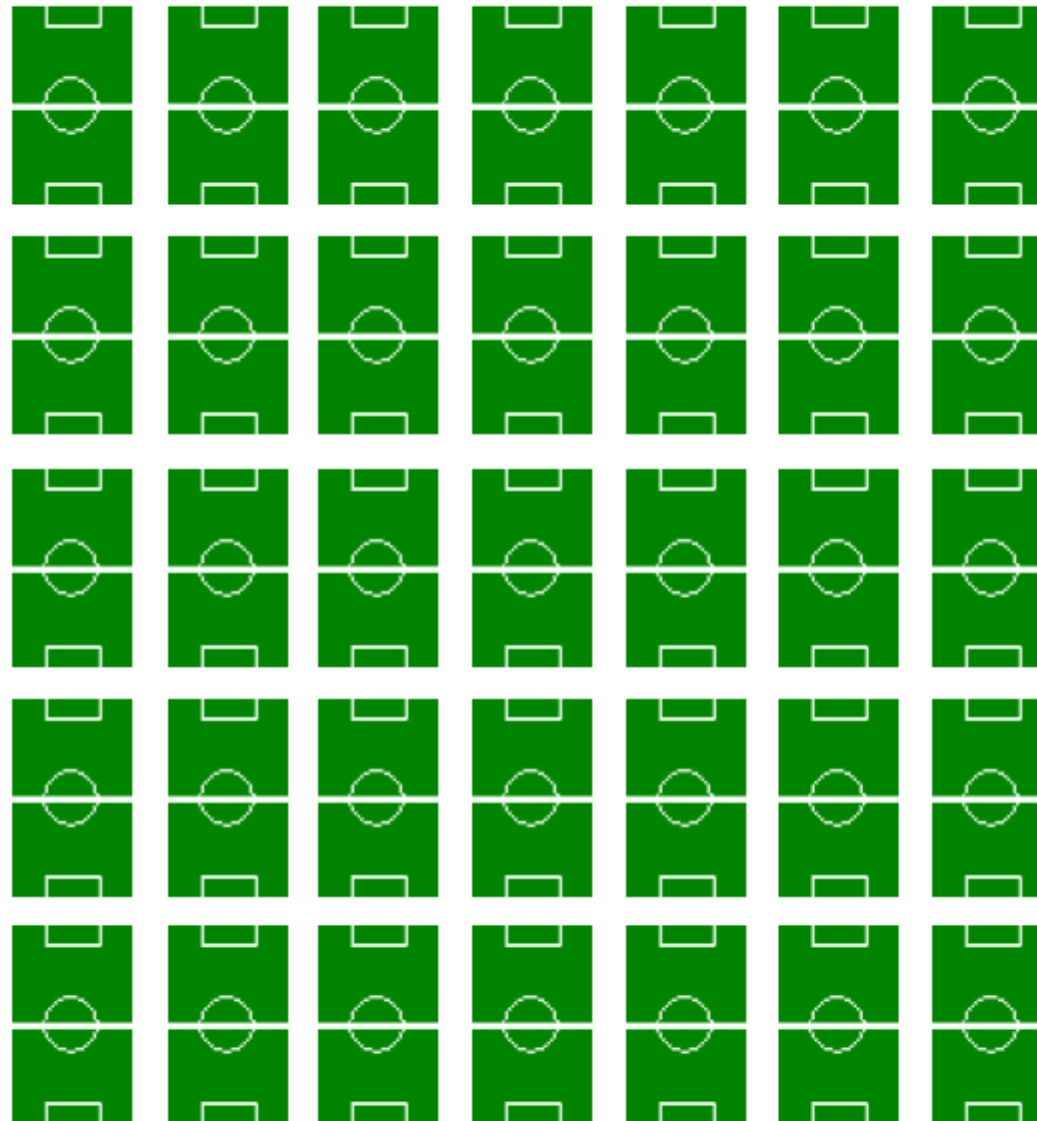
Indoor Environmental Quality

EQ Credit 4.2 “Low-Emitting Materials: Paints & Coatings” – Up to 1 Point

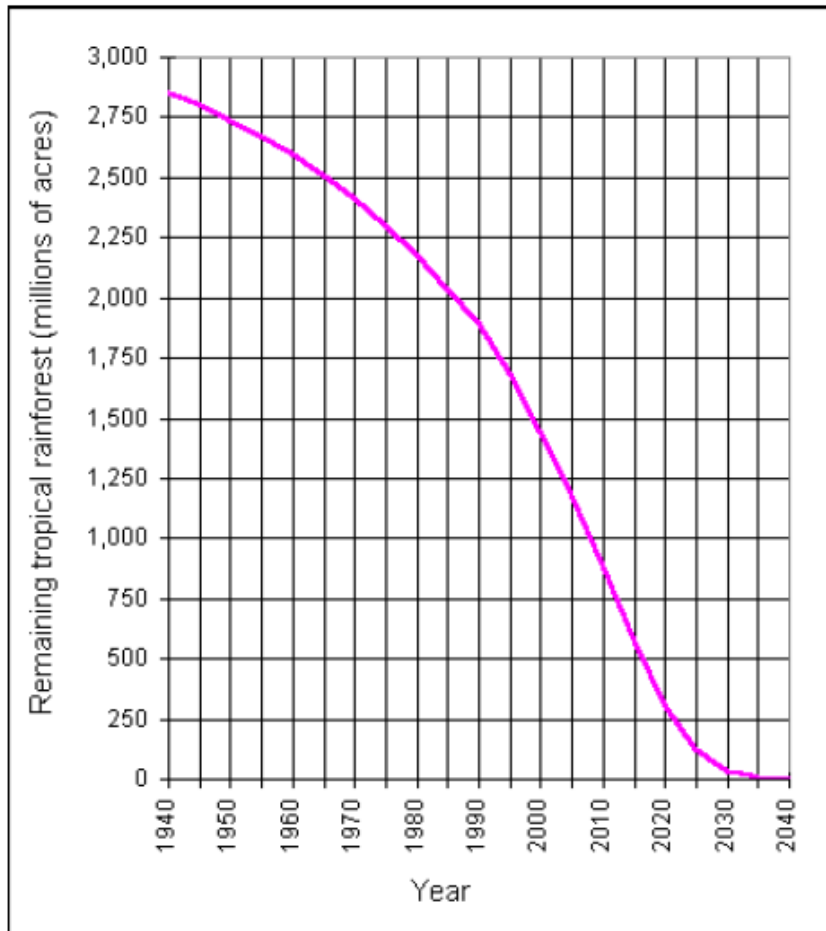
Innovation & Design Process

ID Credit 1– “Innovation in Design” – Up to 1 Point

Every minute an area of 35 soccer fields of Tropical Rainforest is lost forever!



Rainforest of the world



- ▶ 1960: 2,600 million acres ¹ of tropical wood – now only 500 million acres left
- ▶ Demand is increasing by 11% per year

¹ 1 acre= 0.404 hektar

Source: www.tropicaltreefarms.com

Increasing demand for wood



Historical demand for wood:

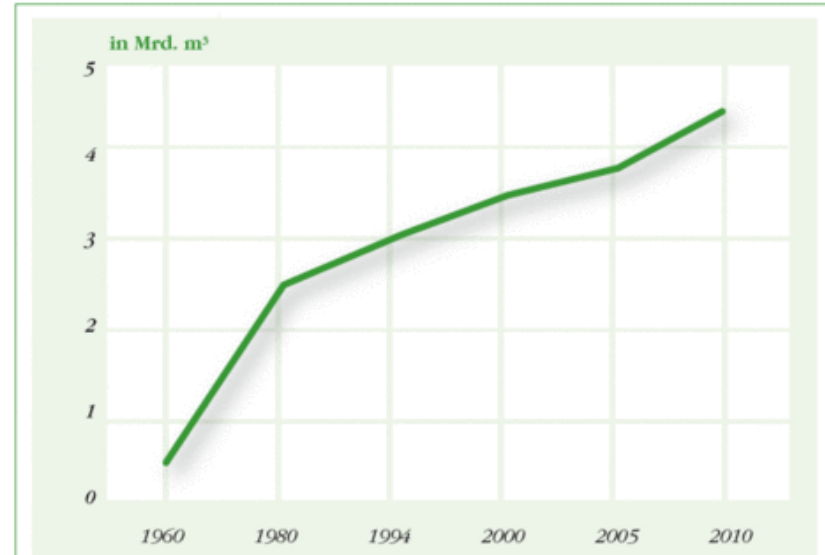
1960: 1,5 billion m³ ; 2010: 4,5 billion m³

This amount equals a fully loaded train with a length of 40 times the circumference of the earth and a turnover **wide over 500 billion USD**

- The demand for wood will steadily increase with the increase of the world population
- Only in Europe in 2030, the demand of wood will be over 400 million m³ more than the actual availability¹
- The wood price will increase rapidly

¹ Source: www.lifeforestry.com

Development of the worldwide wood consumption



Source: www.lifeforestry.com

Customer portfolio to join the Resysta network



The polymer industry is fascinated and is prepared to join the Resysta business:

- Participate in the world market of 500 billion USD
- Produce a green product which provides the end consumer with the better wood

Key Partners:

Compounder worldwide



Extruder worldwide



Worldwide presence of the Resysta organization



Ein weltweiter
Material
Standard

One global Material Standard



Resysta Network for Growth



- Network has been approved on January 8 2015 by SE, under Anti Trust rules by CEFIC
- **“Network For Growth” will invite as a principle** all companies that have concluded a compounder/converter / collaboration contract with Resysta International or its affiliates.
- Downstream value chain partners (distribution, specifiers, builders, installers) the group concluded that they should be rather invited to meetings and conferences as speakers and considered guests
- create a platform for members to share information (network vision, who is who, special marketing tools, brand new projects completed, success stories, presentations of the members with links)
 - **Round table session**
 - **Marketing and Communication**
- Controlled loop for Resysta
- Establishing ONE STANDARD material with closed loop recycling concept

Meanwhile more than 1000 soccer fields of tropical rainforest are lost forever!



» The **Future** is
made of **Resysta** «

100% no wood • 100% no WPC • 100% waterproof