

Resysta®
THE BETTER WOOD

FACADE

INDIVIDUAL AND LIMITLESS

15 YEARS
GUARANTEE

- no swelling
- no cracking
- no splintering
- no rotting

Resysta®
THE BETTER WOOD

..... 100% wood-free, water-resistant, weather-proof, dimensionally stable



RESYSTA FACADE ADVANTAGES:

- Owing to Resysta's polar properties, glazes and sealing perfectly adhere to the surface.
- Resysta does not absorb water.
Therefore flaking of the glazes or sealing does not occur.
- no graying of the surface
- barely visible changes in color, even after many years
- high screw withdrawal resistance
- durability category 1 (very durable) against fungal decay

Many Reasons Why...

Resysta impresses with its unique properties not only with its longevity but also in feel, look and the diversity of potential applications for facade design.

Due to the high material density Resysta is especially resistant to driving rain. Due to the fact that it does not swell, splinter, shrink or crack, Resysta differs from other material. Lignin is the substance that causes wood to gray when exposed to influence of weather. Resysta does not contain any wood components and will therefore not gray. Owing to the certified durability classification 1 against fungal decay, Resysta meets highest demands in this regard.

Resysta has been especially developed for outdoor areas. Therefore Resysta withstands climatically challenging conditions, like aggressive influences caused by weather, environment and temperature. Thanks to these exceptional properties, Resysta represents the ideal material for facades as well as for terrace construction and installation in bathroom units.

The polar properties of Resysta allow for the perfect adherence of glazes and sealing - the perfect precondition for long-lasting color design of the Resysta facade. Color chipping and flaking of the Resysta surface cannot occur. The glazes contain color pigments of highest quality standard and are not destroyed by UV-light.

Owing to its long-molecular formulation of the glazes, chipping is not taking place.

Facades treated with Resysta glazes and sealing display almost no visible changes even after a period of 10 years. This refers to color intensity, which may vary by approx. 10% as well as to the durability of the material. Therefore, elaborate refinishing, grinding and painting of the facade is not required in the long-run.



Material

»Resysta is extremely resistant and features an excellent eco-balance «

Technical and ecological assessment of the new material Resysta:

Resysta looks like wood and stands out for its high mechanical strength, thermal stability as well as **chemical resistance**. Unlike wood, Resysta is **swell-, splinter- and crack-free, does not gray or fade** and withstands pest infestation. Resysta products are therefore **very durable** without requiring special care or maintenance. Resysta is a **true alternative to tropical wood**.

It is therefore especially suitable for outdoor use like garden furniture and outdoor decking as well as for wellness and pool areas, where high strain, aggressive weather, temperature and environmental influences take effect. Resysta products furthermore provide for an exceptionally beneficial eco-balance. In short: **Resysta deserves the title »The better wood« in every sense.**

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 convinces in...

...PRODUCT PROPERTIES

- UV-resistance
- weather resistance
- water resistance
- salt- and chlorine-water resistance
- no cracking
- no pest infestation or fungal decay
- flammability classification B2 (with additives, B1 classification possible)

...SURFACE AND DESIGN

- wood feel and appearance
- skid resistance
- no splintering
- individual color scheme

... HANDLING

- easy installation
- customary tools
- easy to refinish

...SUSTAINABILITY

- no rotting
- 100% recyclable
- easy-care

Resysta is not a wood plastic composite (WPC) and yet surpasses all known alternative wood materials in feel and durability!

Items

RESYSTA FPHR 6520 RHOMB BATTEN

(W x H x L) 65 x 20 x 3900 mm



RESYSTA FPHR 10520 RHOMB BATTEN

(W x H x L) 105 x 20 x 3900 mm



RESYSTA FPH 7020

(W x H x L) 70 x 20 x 3900 mm



RESYSTA CP 140

(W x H x L) 175 x 10 x 3900 mm



RESYSTA FACADE ADVANTAGES:

- no paint chipping like wood
- no graying of the surface
- barely visible changes in color, even after many years
- elaborate grinding and painting not required
- durability category 1 against fungal decay

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RESYSTA WCWA 300x33
FRONT SIDE (W x H x L) 300 x 33 x 1500 mm



RESYSTA WCWA 300x33
BACK SIDE (W x H x L) 300 x 33 x 1500 mm



RESYSTA WCWA RE 300
END RIGHT (W x H x L) 300 x 33 x 1500 mm



RESYSTA WCWA LE 300
END LEFT (W x H x L) 300 x 33 x 1500 mm



RESYSTA WCWA CR 300x33
CORNER (W x H x L) 300 x 33 x 300 mm



HOOK FOR WALL CLADDING SYSTEM



Applications

All its very exceptional properties make Resysta extremely resistant to weather influences like sun, rain, snow and ice, salt- and chlorine-water. Resysta does not swell, crack, splinter or rot. This we guarantee for 15 years.



office building | Comaco



super market | Cape Town



school building | Athens



park | Hong Kong

FURTHER APPLICATIONS



private villa | Key Biscane



ship deck | Miami

FAQs

Is it difficult to install Resysta?

No, Resysta can be handled just like wood. At installation the thermal expansion needs to be considered.

Why is Resysta so durable?

Owing to the unique blend and composition of materials used, Resysta is very durable. Resysta does not contain any wood components, which could result in graying.

Why does Resysta not crack?

Resysta on the one hand does not absorb moisture and on the other hand does not release any moisture. Therefore, crack-formation cannot take place.

Does Resysta fade or gray after some time?

Resysta will not gray. In the course of time - depending on environmental conditions - it may, however, become lighter in color. This can be avoided by glazing - the color tends to intensify.

Is Resysta supplied already colored?

No, Resysta is delivered untreated and should be colored before installation. The wide range of color is limitless and leaves nothing to be desired.

Does a facade made of Resysta require elaborate maintenance?

No. As water cannot be absorbed, paint chipping and weathering like with wood cannot occur. Please obey the care instructions.

Further information is provided at www.resysta.com or at your authorized dealer.

Properties

Density	ASTM D2395:2002	approx.1.46 kg/m ³
Coefficient of Linear Thermal Expansion	ASTM D696	3.6x10 ⁽⁻⁵⁾ mC
Water Absorption and Air Humidity Behaviour	ASTM D1037:2006a	none or very low water absorption (only surface wetting)
Weathering and UV Resistance	QUV Test	Resysta surfaces treated with glaze show extremely high resistance
Skid Resistance	DIN 51097	C Rating (highest rating)
Fire Behaviour (German Standard)	EN ISO 11925-2	B2, normal flammability (by adding flame retardants, a higher rating of B1 can be reached)
Fire Behaviour (US Standard)	NFPA	A Rating (flame propagation 25, smoke emission 450)
Fire Behaviour (British Standard)	BS 476 Teil 6&7	Rating 1
Durability (Resistance to Wood-Destructive Fungi)	DINV ENV 12038:2002	the material has not been affected, highest durability - Class 1
Emission	DIN EB ISO 9001/14001	passed
Brinell Hardness (HB)	EN 1534	81,1 N/mm ²
Friction Coefficient μ untreated	EN 13893	0,46
Friction Coefficient μ with 2K	EN 13894	0,52
Screw Withdrawal Resistance	EN 320.2011-07	5777 N

Globally renowned institutions carry out tests according to German, British, European and US standards.



Innovation



A wide belt of tropical rain forests covers our earth. It's the home of countless animals and plants, some of them not yet discovered. This "green lung" stores a large volume of carbon dioxide and is essential for regulation and preservation of the global climate. However, as long as the demand for tropical wood increases, saving the rain forests is easier said than done. With Resysta everybody can help to save the rain forests. Resysta is 100 % wood-free. This means that not a single tree had to be cut down for it. Learn more at www.resysta.com

Resysta – Winner across the board

Resysta has been awarded at the distinguished anniversary contest in the category "Construction".

DETAIL
DESIGN ET KONSTRUKTION • QUALITÄT • PREIS • UMWELT • INNOVATION • NEUER CONSTRUCTION

Resysta has been awarded at the "Design & Product Award" in the category "Design Materials".

dwell
ON DESIGN

Resysta has been awarded with the "Innovation Award Architecture and Building - Category Sustainability".

AIT



The Future Formula is Called Resysta.

Raw materials used:



approx. 60% rice husk + approx. 22% rock salt + approx. 18% mineral oil = Resysta

All specifications provided are subject to our installation guidelines and appropriate use at outdoor exposure.

The installation guide may be adapted to technical progress without prior notice.

The current version can be downloaded at www.resysta.com.

Subject to alterations. Slight deviations in color, photos and graphics could occur due to printing process.

www.resysta.com