

Resysta®
THE BETTER WOOD

FACADE

INDIVIDUAL AND LIMITLESS

25 YEARS
WARRANTY

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

Resysta®
THE BETTER WOOD

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

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, snow or frost. 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 design of the Resysta facade. Color chipping and flaking of the Resysta surface cannot occur. The Resysta 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 will not occur.

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.

Please ask
for our facade
guarantee-
certificate!

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

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 outshines 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 resistant
- 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

RESP3423412

(W x H x L) 3/4" x 2 3/4" x 12'



RESP1223412

(W x H x L) 1/2" x 2 3/4" x 12'



RESCS340412

(W x H x L) 3/4" x 4" x 12'



RESP1231212

(W x H x L) 1/2" x 3 1/2" x 12'



RESP340612

(W x H x L) 3/4" x 5 1/2" x 12'



RESCP120612

(W x H x L) 1/2" x 6" x 12'



RESCP120412

(W x H x L) 1/2" x 4" x 12'



Private Residence West Vancouver, BC.

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 15 years for commercial and 25 years for residential homes.



Coffee Shop | Brooklyn, NY



Hotel | Los Angeles, CA



Privat Residence | Weston



Lake House | Miami, FL



hotel | Waikiki Beach



hotel | Waikiki Beach

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, therefore Resysta does not gray.

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 (British Standard)	BS 476 Part 6 &7	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 Part 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
Heat conductivity (λ)	EN 12664	0.199 W/(mK)
Water vapor permeability	DIN EN ISO 12572	$\mu=1300 \rightarrow$ sd 7.22m diffusion inhibiting
Bending Strength	ISO 178	46 N/mm ²
Bending Modulus	ISO 178	3850 N/mm ²
Tensile Strength	ISO 527	21,8 N/mm ²
Tensile Modulus	ISO 527	2340 N/mm ²
Shearing Strength	EN 392	16,8 N/mm ²
Resistance to Mould Fungal Decay	CEN/TS 15083-2	The material features almost no mass loss, highest durability classification 1 (very durable)
Resistance to termites	ASTM D3345-08	Resistant to termite infestation (coptotermes curvignathus), very little loss of mass - very high durability
Electric surface resistance and volume resistivity	Specific surface resistance and volume resistivity	Surface resistance $R_x=8,0*10^{13} \Omega$ Specific surface resistance $\alpha=8,1*10^{14} \Omega$ Volume resistivity $R_x=2,2*10^{13} \Omega$ Specific volume resistivity $\alpha=6,3*10^{14} \Omega$

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



Innovation



We at Resysta believe in keeping our natural resources. Resysta has the visual appearance, feeling and structure of tropical wood, with absolutely no wood in it. We use a renewable resource that is replaced in short cycles - rice husks. Resysta, a sustainable material provides only the benefits of a wood-look product, but without the hassles of wood. No greying or cracking. Recyclable, water resistant and can be stained in over 21 colors. Enjoy Resysta and proudly know, along with us, you are preserving the world in which we live.

Learn more at www.resysta.com

Resysta – Winner across the board

Resysta has been awarded the distinguished anniversary contest in the category “Construction”.



Resysta has been awarded the “Design & Product Award” in the category “Design Materials”.



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





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.





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We can also provide technical consultation and installation training for projects that involve Buzon Pedestals. Please contact us to discuss your particular needs. HDG Building Materials also has a network of experienced installers in many major cities. Please contact us for introductions or referrals.

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HDG Building Materials is an expert dealer for Resysta Rainscreen, Cladding, and Decking. HDG provides architectural sales and support in North America.

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