



Resysta®
THE BETTER WOOD

DECKING

BEAUTIFUL LIKE NATURE



25 YEARS
WARRANTY

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

Resysta®
THE BETTER WOOD

..... 100% wood-free, water and skid resistant, splinter-free

The Material

»Resysta is extremely resistant 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 be worked for garden furniture, outdoor decking as well as wellness and pool areas. Simply everywhere, high strain, aggressive weather and environmental influences become effective. Furthermore, products made of Resysta provide for an especially beneficial eco-balance. 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 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

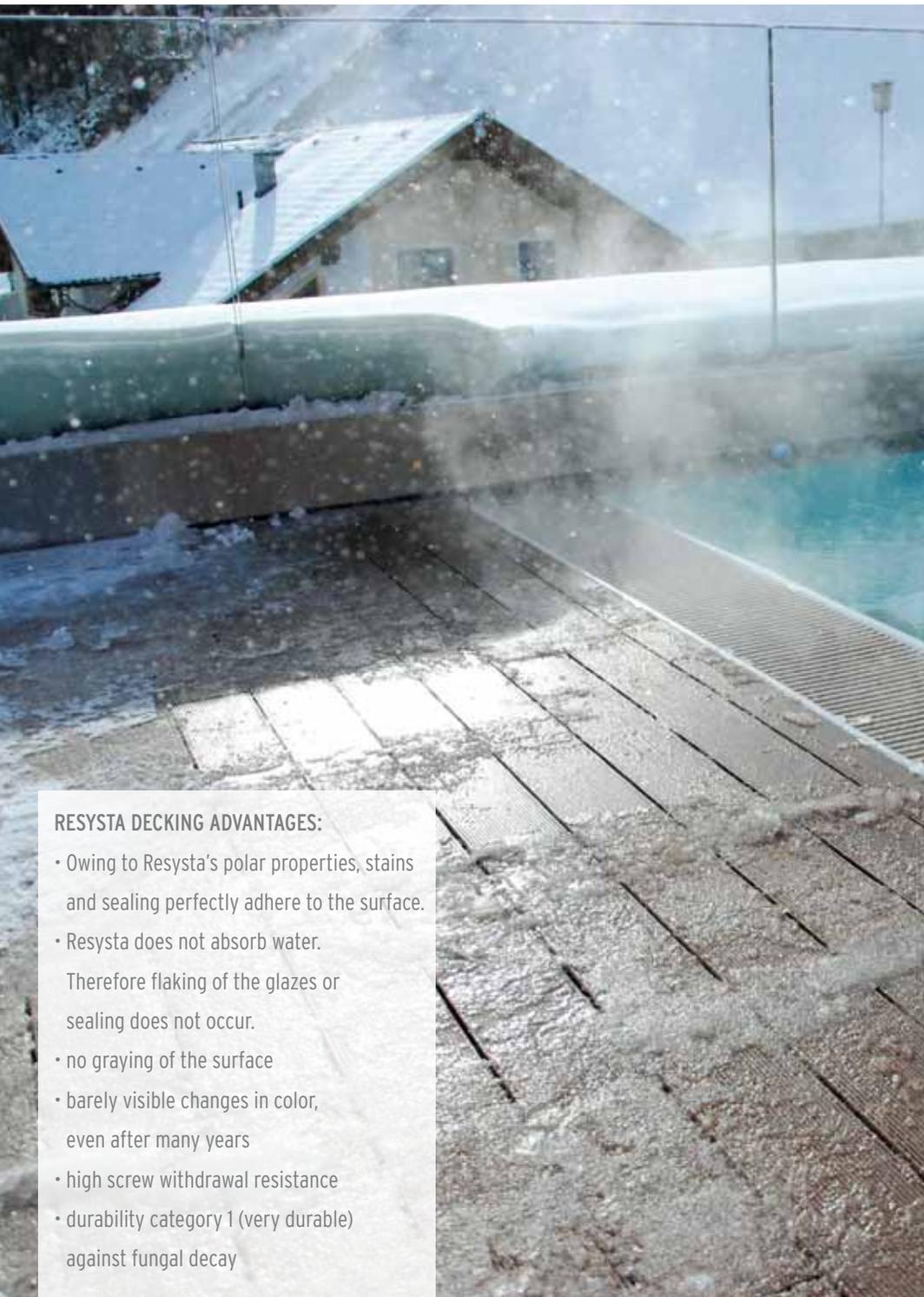
...HANDLING

- 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!



RESYSTA DECKING ADVANTAGES:

- Owing to Resysta's polar properties, stains 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 decking 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 stains 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 Resysta stains contain color pigments of highest quality standard and are not destroyed by UV-light.

Owing to its long-molecular formulation of the stains, chipping will not occur.

Decks treated with Resysta stains and sealing show 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, sanding and painting of the facade is not required in the long-run.

Items

RESS340612 silver
(W x H x L) 3/4" x 5 1/2" x 12'



RESG010612 gold
(W x H x L) 1" x 5 1/2" x 12'



RES010612 platinum
(W x H x L) 1" x 5 1/2"



RES010812
(W x H x L) 1" x 7 1/2" x 12'



RES020612 jetty
(W x H x L) 1 1/2" x 5 1/2" x 12'



RESF120812
(W x H x L) 1/2" x 8" x 12'



RES010312
(W x H x L) 3/4" x 2 3/4" x 12'



RESCLIP90



RESDOWEL3
(Ø x L) 1/2" x 3'



RESEGE6
(W x H x L) 1/2" x 1/2" x 6'



RESEND6
(W x H x L) 5/8" x 5/8" x 6'



Color & Protection

Chose from beautiful 6 standard stain colors.



Resysta Color Concept, special colors



Sealing with Resysta RFS

Resysta RFS seals the surface. Thanks to this sealed structure, dirt particles only adhere to the surface and can be removed easily with a gentle jet of water (i.e. garden hose) or with a soft brush.



Applications

All the 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 warranty for up to 25 years.



private villa | Key Biscayne



hotel pool | Kitzbühel



outdoor hotel facility | Meran



sun deck | Miami Beach



golf club | Cape Town



private house | Dresden

FAQs

Is it difficult to install Resysta?

No, Resysta can be installed as easy as any other terrace system. Please observe the instructions given in our installation guide.

Why is Resysta so durable?

Owing to its unique composition of ingredients, Resysta is very durable, sustainable and therefore environment-friendly. 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 and dimensional changes are limited to thermal expansion.

Does the color lighten up or gray after some time?

Resysta will not gray. However, in the course of time a certain fading - depending on environmental conditions - may occur. This can be avoided or slowed down by using our stains. The colored surface can be refreshed at any time.

Is it possible to install Resysta around a pool?

Yes, as Resysta is chlorine- and salt-water resistant. Furthermore Resysta offers best skid-resistance and is therefore perfectly suitable for wet barefoot areas.

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	$\mu=1300 > sd$ 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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Superior Paving, Decking and Pedestal Products.

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Extended Team

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.

Sales Representatives

Sales representatives for HDG Building Materials are located in the Pacific Northwest, Southern California, and Iowa.

Outside of those regions? No problem, we are happy to serve. Please contact us at 503.360.9551



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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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