

# Resysta®

## DECKING BEAUTIFUL LIKE NATURE

25 YEARS  
WARRANTY

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



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



#### 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.

# 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.

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

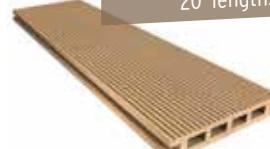
RESS340612 silver  
(W x H x L) 3/4" x 5 1/2" x 12'



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) 11/2" 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



RESCLIP100



RESDOWEL3  
(Ø x L) 1/2" x 3'



RESEDGE6  
(W x H x L) 3/8" x 1/2" x 6'



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



# Color & Protection

Choose from beautiful 6 standard stain colors.



Burma



C 14



C 23



C 24



C 42



C 51

Resysta Color Concept, special colors



C 02



C 09



C 15



C 26



C 28



C 29



C 45



C 46



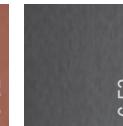
C 47



C 49



C 52



C 53

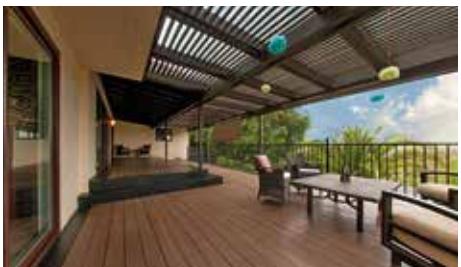
Sealing with Resysta RFS

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.



Deck | Riverside, CA.



Deck | Vancouver, Canada



outdoor hotel facility | Meran



sun deck | Miami Beach



Balcony | Miami, FL.



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](http://www.resysta.com) or at your authorized dealer.

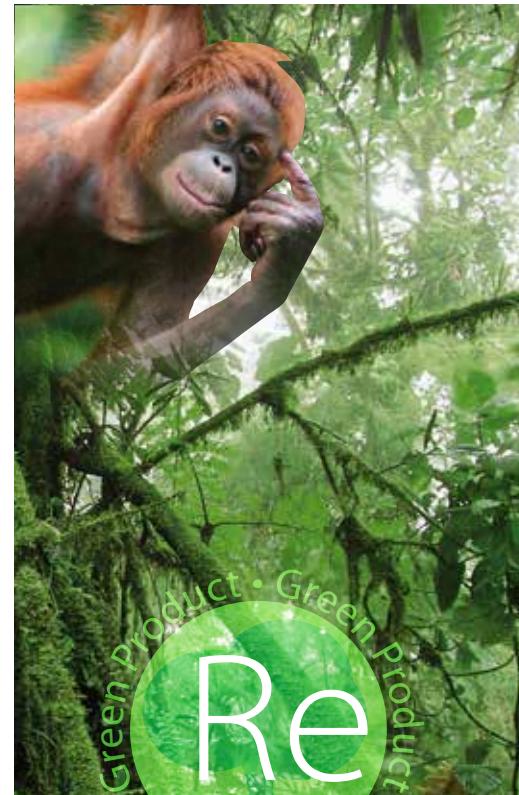
# Properties

Density	ASTM D2395:2002	approx. 1.46 g/cm³
Coefficient of Linear Thermal Expansion	ASTM D696	3.6x10(-5) 1/K
Water Absorption & Humidity	ASTM D1037:2006a	Little up to no water absorption (only surface moistening)
Weathering and UV Resistance	QUV Test	With glaze treatment, Resysta surfaces are extremely resistant
Slippery Test (wet area barefoot)	DIN 51097	Class C (highest class)
Fire Rating	EN ISO 11925-2	B2 (E) - standard flammable (with additional treatment B1 reachable)
Fire rating according NFPA (US Norm)	ASTM E84	Class A (flame propagation 25, smoke emission 450)
Fire rating (British standard)	BS 476 Teil 6&7	class 1
Durability - Resistance against wood-destroying fungi	DINV ENV 12038:2002	no attack by the test fungi, highest durability class 1 (very durable)
Emission	LGA-tested safety & contamination	LGA test passed
Brinell Hardness (HB)	EN 1534	11,762 psi
Coefficient of sliding and friction $\mu$ untreated	EN 13893	0.46
Coefficient of sliding and friction $\mu$ with 2K varnish	EN 13894	0.52
Axial Withdrawal Force (of Screws)	EN 320.2011-07	5777 N
Thermal Conductivity ( $\lambda$ )	EN 12664	0.199 W/(mK)
Water Vapour Transmission	DIN EN ISO 12572	$\mu=1300 \rightarrow sd\ 7.22m$ diffusion blocking
Bending Strength	ISO 178	6,672 psi
Bending Modulus	ISO 178	558,395 psi
Tensile Strength	ISO 527	3,162 psi
Tensile Modulus	ISO 527	339,388 psi
Shearing Strength	ISO 527	2,437 psi
Durability - Resistance against rotting fungi	CEN/TS 15083-2	no attack by the test fungi, highest durability class 1 (very durable)
Durability against mold and wood discoloring fungi	EN 15534-1:2012	Durability against the wood discoloring fungi (very durable)
Durability against subterranean Termites	ASTM D3345-08	High Durability against subterranean Termites - nearly no weight loss
specific surface and volume resistances	DIN IEC 60093 measuring voltage 100 V	surface resistance $R_x=8,0*10(13) \Omega$ Specific surface resistance $\alpha=8,1*10(14) \Omega$ volume resistance $R_x=2,2*10(13) \Omega$ Specific volume resistance $\alpha=6,3*10(14) \Omega$

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](http://www.resysta.com)

## Resysta – Winner across the board

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



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



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



# Resysta®

## 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](http://www.resysta.com).

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

[www.resysta.com](http://www.resysta.com)