



Resysta®

# FACADE

INDIVIDUAL AND LIMITLESS

25 YEAR  
WARRANTY

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

Resysta®

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

# Many Reasons Why...

Resysta material 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 rain, snow and ice. Does not swell, splinter, shrink or crack. Resysta differs from other materials, because Lignin is the substance that causes wood to gray when exposed to weather influences. Resysta does not contain any wood components and will therefore not gray. Thanks to certified durability classification 1 against fungal decay - Resysta meets highest demands in this regard.

Resysta has been especially developed for outdoor areas. It withstands climatically challenging conditions and aggressive changes in 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 bathrooms and areas with high humidity.

The polar properties of Resysta allow for the perfect adherence of stains and sealers - 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 the highest quality standard and are not destroyed by UV-light when used with Resysta sealer.

Facades treated with Resysta glazes and sealers 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, sanding and painting of the facade is not required in the long-run.

## 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 stain or sealer 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 Resysta material:

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.

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
- Class A Fire Rating according ASTM E84

### ...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

RESP1223412  
2CH Cladding  
(W x H x L) 5/8" x 2 3/4" x 12'



RESP3423412  
2CH Cladding  
(W x H x L) 13/16" x 2 3/4" x 12'



RESP1231212  
3CH Cladding  
(W x H x L) 5/8" x 3 1/2" x 12'



RESP340612  
4CH Cladding  
(W x H x L) 13/16" x 5 1/2" x 12'



RESP340812  
7CH Cladding  
(W x H x L) 13/16" x 7 3/4" x 12'



RESCLIPHF100  
FACADE Clip



RESCP120412  
4" Siding  
(W x H x L) 1/2" x 4" x 12'



RESCP120612  
6" Siding  
(W x H x L) 1/2" x 6" x 12'



# Color & Protection

Chose from beautiful 6 standard stain colors.



Resysta Color Concept, special colors



Two choices for sealer:

Resysta Sealer RFS for onsite sealing

Resysta Sealer RSI for factory pre-finished material



# 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. We provide a limited warranty up to 25 years in residential applications and up to 15 years for commercial.



Coffee Shop | Brooklyn, NY



Private Residence | San Diego



Private | Florida



Lake House | Miami, FL



Country Club | Manhattan Beach



Office Complex | Monterey Park

# 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 rot, splinter or breakdown.

## 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.

## Is Resysta supplied already colored?

Resysta can be ordered 'raw' (unfinished) or pre-stained/sealed (highly recommended). Stain and Sealer are available for those occasions where the product will be finished on-site.

## 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 see the care instructions.

Further information is provided at [www.resystausa.com](http://www.resystausa.com) or at your authorized dealer.

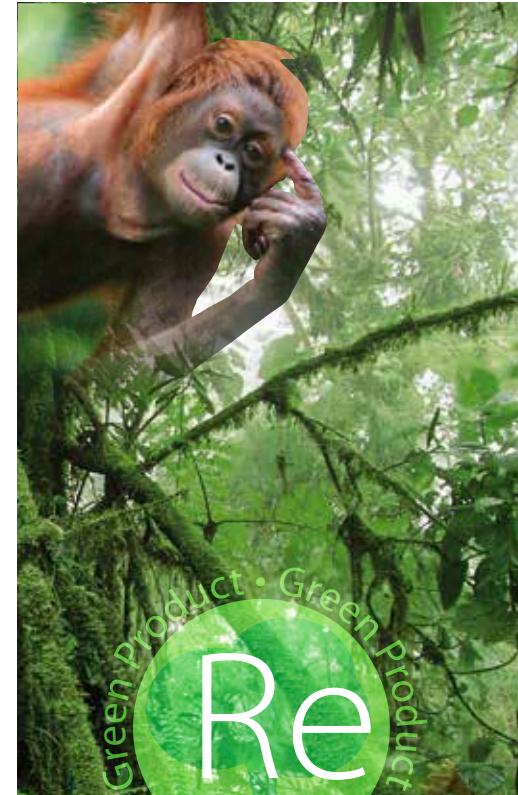
# Properties

Density	ASTM D2395:2002	approx. 1.46 g/cm <sup>3</sup>
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 the benefits of a wood-look product, but without the negative aspects of wood. No greying or cracking. Recyclable, water resistant and can be stained in over 30 colors. Enjoy Resysta and proudly know, along with us, you are preserving the world in which we live. Learn more at [www.resystausa.com](http://www.resystausa.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



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

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

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