



made with Resysta



beautiful like nature, individual & limitless  
**DECKING & FACADE**

100% wood-free | water and slip resistant | splinter-free

# 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 decking, facade, soffits, ceilings, screen walls and trellis.

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 all exterior and interior designs.

The polar properties of Resysta allow for the perfect adherence of Resysta stains – the ideal precondition for long-lasting color design of the Resysta products. Color chipping and flaking of the Resysta surface cannot occur. The Resysta stains contain color pigments of the highest quality standard and are highly resistant to UV exposure.

## Resysta Advantages

- Owing to Resysta's polar properties, Resysta stains perfectly adhere to the surface.
- Resysta does not absorb water. Therefore flaking of the stain does not occur.
- no graying of the surface
- barely visible changes in color, even after many years
- class A fire rating per ASTM-E84
- meets WUI requirements



# The Material



»Resysta is extremely resistant  
and provides for an especially  
beneficial eco-balance«

Technical and ecological assessment of the Resysta material: 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 and withstands fungal decay. Products made with Resysta are therefore very durable without requiring any special care and very low maintenance.

This material is a real alternative to tropical wood. Owing to these characteristics, Resysta is espe-

cially suitable for outdoor use, e.g. it can be worked for garden furniture, outdoor decking and facades. Simply everywhere, high strain, aggressive weather and environmental influences become effective.

Furthermore, products made with Resysta provide for an especially 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

- real wood feel and appearance
- slip resistant
- no splintering
- individual color scheme



## HANDLING

- simple 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!



NVDKP1402536

DECKING BOARD GOLD

(B x H x L) 25 x 140 x 3650 mm



NVDKG1402536

DECKING BOARD PLATINUM

(B x H x L) 25 x 140 x 3650 mm



NVDKGSB1302536

STARTER BOARD GOLD

(B x H x L) 25 x 130 x 3650 mm



NVDKP1302536

STARTER BOARD PLATINUM

(B x H x L) 25 x 130 x 3650 mm



NVDKP2002536

DECKING BOARD PLATINUM

(B x H x L) 25 x 190 x 3650 mm≠



NVDKFP2001236

FASCIA BOARD

(B x H x L) 12 x 200 x 3650 mm



NVDKFPS702036

END PLATE

(B x H x L) 70 x 20 x 3650 mm



RESDOWEL3 DOWEL  
DOWEL

(Ø x L) 13 x 3900 mm



RESEGE6 EDGE STRIP  
RECTANGULAR EDGE  
PROFILE

(B x H x L) 13 x 13 x 1800 mm



RESEND6 END STRIP  
RECTANGULAR END STRIP

(B x H x L) 20 x 20 x 1800 mm



NVDKCLIPSS125  
START / END CLIP SS1

# Decking

## Items



NVDKCLIP200A  
DECKING CLIP



NVCPH9536

SIDING PROFILE 4"

(B x H x L) 95 x 12 x 3650 mm



NVCPH14036

SIDING PROFILE 6"

(B x H x L) 140 x 12 x 3650 mm



NVCPH29224

SIDING PROFILE 12"

(B x H x L) 292 x 25 x 2420 mm



NVDPH1402036

6" DECO PROFILE

(B x H x L) 140 x 20 x 3650 mm



NVDPHB3836

6" LUSO PROFILE

(B x H x L) 145 x 20 x 3650 mm



NVDPCR202036

6" DECO CORNER

(B x H x L) 20 x 20 x 3650 mm



NVCPRB7036

RHOMBUS SIDING PROFILE

(B x H x L) 76 x 20 x 3650 mm



NVRSSS251000

25 mm TEC SHOULDER

STAINLESS STEEL

SIDING SCREW

# Siding

Items



# Cladding

## Items



NVFPH703836  
WALL CLADDING  
2 CHANNELS THICK  
(B x H x L) 70 x 38 x 3650 mm



NVFPX703836  
CLADDING  
2 CHANNELS THICK AL  
(B x H x L) 70 x 38 x 3650 mm



NVFPH1403836  
CLADDING  
4 CHANNELS THICK  
(B x H x L) 140 x 38 x 3650 mm



NVFPX1403836  
CLADDING,  
4 CHANNELS THICK AL  
(B x H x L) 140 x 38 x 3650 mm



NVFPH702036  
WALL CLADDING  
2 CHANNELS  
(B x H x L) 70 x 20 x 3650 mm



NVFPH701536  
WALL CLADDING  
2 CHANNELS THIN  
(B x H x L) 70 x 15 x 3650 mm



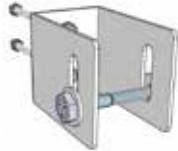
NVFPH901536  
WALL CLADDING  
3 CHANNELS  
(B x H x L) 90 x 15 x 3650 mm



NVFPH1402036  
WALL CLADDING  
4 CHANNELS  
(B x H x L) 140 x 20 x 3650 mm



NVFPH2002036  
WALL CLADDING  
7 CHANNELS  
(B x H x L) 200 x 20 x 3650 mm



NVUB7038  
ALUMINIUM U-BRACKET



# Soffit / Ceiling

## Items



NVCPH9536

SIDING PROFILE 4"

(B x H x L) 95 x 12 x 3650 mm



NVCPH14036

SIDING PROFILE 6"

(B x H x L) 140 x 12 x 3650 mm



NVCPH29236

SIDING PROFILE 12"

(B x H x L) 292 x 25 x 2420 mm



NVDPHB3836

6" LUSO PROFILE

(B x H x L) 145 x 20 x 3650 mm



NVDPH1402036

6" DECO PROFILE

(B x H x L) 140 x 20 x 3650 mm



NVRSS251000

1" TEC SHOULDER  
STAINLESS STEEL  
SIDING SCREW

# Screen Walls & Trellis Items



NVFPH703836  
WALL CLADDING  
2 CHANNELS THICK  
(B x H x L) 70 x 38 x 3650 mm



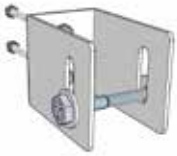
NVFPX703836  
CLADDING  
2 CHANNELS THICK AL  
(B x H x L) 70 x 38 x 3650 mm



NVFPH1403836  
CLADDING  
4 CHANNELS THICK  
(B x H x L) 140 x 38 x 3650 mm



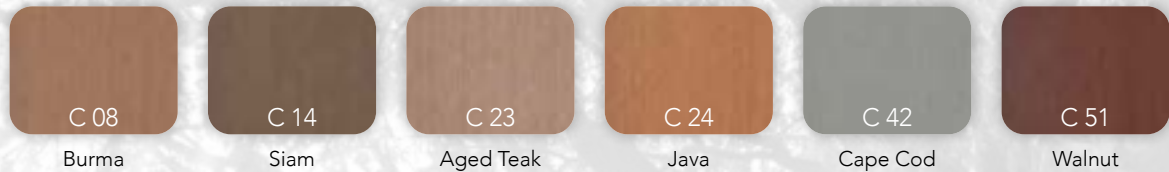
NVFPX1403836  
CLADDING,  
4 CHANNELS THICK AL  
(B x H x L) 140 x 38 x 3650 mm



NVUB7038  
ALUMINIUM U-BRACKET  
w

# Color & Protection

Chose from beautiful 6 standard stain colors.



## Resysta Color Concept, special colors



### Surface treatment procedure

Resysta Color Concept provides unique opportunity to create stunning projects with the variety of over 30 colors. We pride ourselves to offer the only composite product on the market which can be refinished based on customers color preference.

### RESYSTA BASE PRIMER RBP

Primer: Is an aqueous, colorless primer based on an acrylate dispersion. Resysta RBP Primer conveys a good adhesion, closes the surface against ingress of water, and facilitates even application of the transparent colored Resysta RCL stain. Resysta RBP Primer can be used for indoor and outdoor areas.



Primer + RCL

### RESYSTA COATING LAYER RCL

Coating: Is a water-based 1-component protective stain for color designing of Resysta surfaces. RCL finish is specially designed for indoor and outdoor use and features very good weather- and water-resistance. Scope of application is decorative color design for Resysta facades, decking, decking and soffits.



# Decking

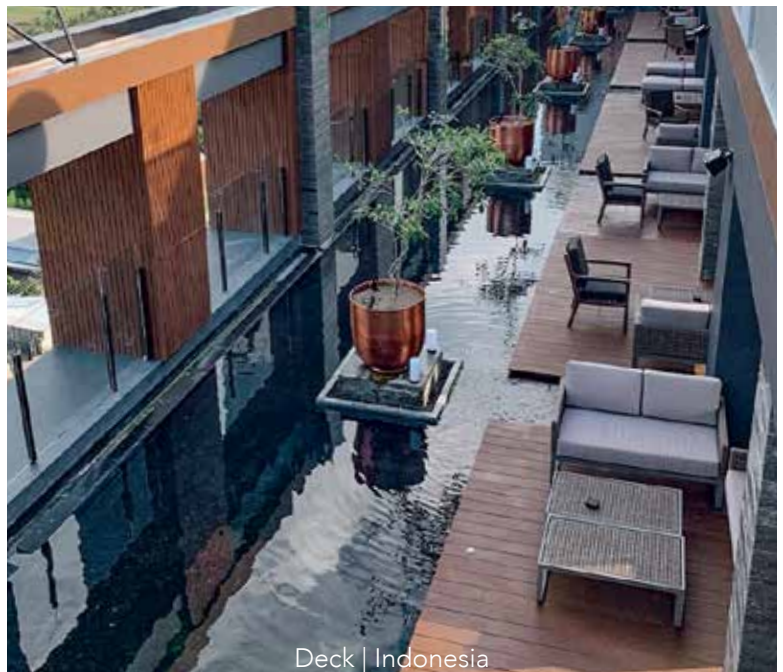
## Applications

All of 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 of 25 years on material and 2 years on the finish.



Deck | USA



Deck | Indonesia



Deck | USA





Deck | USA



Deck | Middle East



Deck | Germany





Indoor Siding | USA



Cladding | Thailand



Siding | USA



Siding | USA



# Siding & Cladding

## Applications

For many years siding has been the most traditional form of decorating and waterproofing building walls. Therefore Resysta siding is a perfect solution. With the natural look and feel

of wood followed by the minimal maintenance requirements it won over the architects, homeowners and contractors.



Siding | USA



Cladding | Brazil



Siding | USA



Decking, Screen Wall, Soffit & Cladding | USA



# Soffit / Ceiling / Screen Walls & Trellis Applications







Trellis | USA



Soffit | Great Britain



Ceiling | Indonesia



Trellis | USA



Screen Wall | USA

# 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.novano-resysta.de](http://www.novano-resysta.de)

## Eigenschaften

Density	ASTM D2395:2002	approx. 1.46 g/cm <sup>3</sup>
Coefficient of Linear Thermal Expansion	ASTM D696	3.6x10 <sup>(-5)</sup> 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	DIN V 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 ( $\mu$ )	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 $\alpha=6,3*10^{(14)} \Omega$





# FAQs

## IS IT DIFFICULT TO INSTALL RESYSTA?

No, Resysta can be installed as easy as any other traditional building products. Please observe the instructions given in our installation guides and videos.

## HOW TO MAINTAIN RESYSTA?

For general cleaning of the surface dawn dishwashing liquid and water should remove most surface dirt.

## 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 rotting and splintering.

## 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 slowed down by using our stains. The colored surface can be refreshed at any time.

Further information is provided at [www.novano-resysta.de](http://www.novano-resysta.de) or at your authorized dealer.

# Resysta — Winner across the board



reddot design award winner 2012



reddot design award winner 2016



reddot design award winner 2017



NOVANO

# The Future Formula

is called Resysta

Raw materials used:



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

# 25

YEAR WARRANTY

no rotting | no swelling  
no splintering | no cracking

# NOVANO

[info@novano-resysta.de](mailto:info@novano-resysta.de) | [www.novano-resysta.de](http://www.novano-resysta.de)

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.