FACADE
INDIVIDUAL AND LIMITLESS

25 YEAR WARRANTY
• no swelling
• no cracking
• no splintering
• no rotting

FACADE
INDIVIDUAL AND LIMITLESS

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

Facades treated with Resysta stains display almost no visible changes even after a period of 5 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 before 15 years.

**RESYSTA FACADE ADVANTAGES:**

- Owing to Resysta's polar properties, Resysta stains 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!
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 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.

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, roof soffits.

Items

<table>
<thead>
<tr>
<th>Items</th>
<th>Color &amp; Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESP1223412</td>
<td>2CH Cladding (W x H x L) 5/8” x 2 3/4” x 12’</td>
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<tr>
<td>RESP3423412</td>
<td>3CH Cladding (W x H x L) 3/16” x 2 3/4” x 12’</td>
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<td>RESP340612</td>
<td>4CH Cladding (W x H x L) 3/16” x 5 1/2” x 12’</td>
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<td>RESP340812</td>
<td>7CH Cladding (W x H x L) 3/16” x 7 3/4” x 12’</td>
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<td>RESCPH120412</td>
<td>4” Siding (W x H x L) 1/2” x 4” x 12’</td>
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<td>RESCPH120612</td>
<td>6” Siding (W x H x L) 1/2” x 6” x 12’</td>
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<tr>
<td>RESCPH011212</td>
<td>12” Siding (W x H x L) 1” x 12” x 12’</td>
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</tbody>
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Chose from beautiful 6 standard stain colors.

- Burma
- Siam
- Aged Teak
- Java
- Cape Cod
- Walnut

Resysta Color Concept, special colors

- Pale Golden
- Mustard Green
- Mahogany
- Blue
- Dark Green
- Apple Green

- Dark Siam
- Sage
- Palisander
- Bright Red
- Moss Green
- Anthracite

- Rust
- Green/Blue
- Yellow Teak
- Concrete Grey
- Anthracite
- Black

- Light Taupe
- Lavender
- Concrete Grey
- Bright Red
- Anthracite
- Black

- Dark Taupe
- Terra Cotta
- Concrete Grey
- Bright Red
- Anthracite
- Black

- Dark Grey
- Terra Cotta
- Concrete Grey
- Bright Red
- Anthracite
- Black
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 up to 25 years in residential applications and up to 15 years for commercial.

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-finished (highly recommended). RBP primer and RCL stains 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 or at your authorized dealer.
Properties

Density | ASTM D2939 2002 | approx. 1.46 g/cm³
Coefficient of Linear Thermal Expansion | ASTM D696 | 3.6 x 10⁵ /°C
Water Absorption & Humidity | ASTM D1037 2006a | Little up to no water absorption (only surface moistening)
Weathering and UV Resistance | UV Test | With glass treatment, Resysta surfaces are extremely resistant.
Slippery Test (wet area barefoot) | DIN 50997 | Class C (highest class)
Fire Rating | EN ISO 9525-2 | B2 (E) - standard flammable (with additional treatment III reachable)
Fire rating according NFPA (US Norm) | ASTM E84 | Class A (flame propagation 25, smoke emission 450)
Fire rating (British Standards) | BS 476 Test 667 | Class 1
Durability - Resistance against wood-destroying fungi | DIN ENV 12038 2002 | no attack by the test fungi, highest durability class 1 (very durable)
Emission | LGA-tested safety & contamination | LGA test passed
Brinnell Hardness (HB) | EN 1534 | 11,762 psi
Coefficient of sliding and friction μ untreated | EN 13893 | 0.46
Coefficient of sliding and friction μ with 2K varnish | EN 13894 | 0.52
Axial Withdrawal Force (of Screws) | EN 320 2011-07 | 3,177 N
Thermal Conductivity (λ) | EN 12664 | 0.199 W/(m·K)
Water Vapour Transmission | DIN EN 12572 | μ₂=1000 = std 720m diffusion blocking
Bending Strength | ISO 178 | 6,672 psi
Bending Modulus | ISO 178 | 558,395 psi
Tensile Strength | ISO 527 | 3,962 psi
Tensile Modulus | ISO 527 | 390,388 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 19534-1 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 | surface resistance Rx=8.0³10⁸ (Ω)
| | Specific surface resistance Rx=8.7³10¹⁴ (Ω)
| | volume resistance Rx=2.1³10⁸ (Ω)
| | Specific volume resistance Rx=6.7³10¹⁴ (Ω)
| |

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

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

Resysta – Winner across the board

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

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

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

Learn more at
www.resystausa.com
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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info@resystausa.com

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

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

www.resystausa.com