

There's a
new problem
on deck. **Corrosion.**



And now there's
a solution.

Quick and easy.

Deck it right.[™]



GRACE

VYCOR DECK PROTECTOR[®]
Self-Adhered Flashing



Good news for the environment is bad news for decks.

New wood preservatives cause accelerated corrosion.



Galvanized joist hanger attached to ACQ wood, 7 months; wet conditions.

The Corrosion Problem

- CCA treated wood, used for almost 70 years, is no longer available for residential usage due to its negative environmental and health effects.
- Environmentally safe but significantly more corrosive preservatives (ACQ, CA-B, ACZA) replaced CCA as of January 1, 2004.
- New wood treatments are approximately 2.5 – 4 times more corrosive to galvanized metal components compared to the historically used CCA.
- Corrosion may become visible in a short period of time – weeks or months rather than years. Wet conditions accelerate the corrosion rate.
- Heavier galvanized coatings (G185 or batch hot-dip galvanized) extend the life of the connectors and fasteners, however the corrosion mechanism and rate do not change. The use of additional protection is highly recommended.

WOOD PRESERVATIVE ABBREVIATION KEY

CCA = Chromated Copper Arsenate
ACQ = Alkaline Copper Quaternary
CA-B = Copper Azole
ACZA = Ammoniacal Copper Zinc Arsenate

VYCOR DECK PROTECTOR®

S e l f - A d h e r e d F l a s h i n g

What The Pros Say

"I was very concerned about the corrosion problem with the new ACQ decks. I tried Grace Vycor Deck Protector and I will be using it on all ACQ decks that I build. It takes almost no time to install and costs a fraction of the price of the deck. Grace Vycor Deck Protector ensures that I sleep well at night, confident that my customers have a deck that will last them a lifetime. There are no other products on the market that can solve the corrosion problem as fast and easy as Grace Vycor Deck Protector."

Douglass Webb (Douglass Design and Construction, Inc.),
a residential remodeling contractor with 18 years of experience.

P A T E N T
P E N D I N G

The Grace Vycor Deck Protector® Solution

- The first product uniquely formulated and tested to help provide corrosion protection to galvanized metal connectors.
- Helps decrease the corrosion rates of galvanized connectors to the historically acceptable levels seen with CCA.
- Helps reduce the corrosion rates of the galvanized nails attaching the connectors.
- The only barrier solution evaluated by Simpson Strong-Tie® – the leader in the metal connectors industry.



Evaluated by

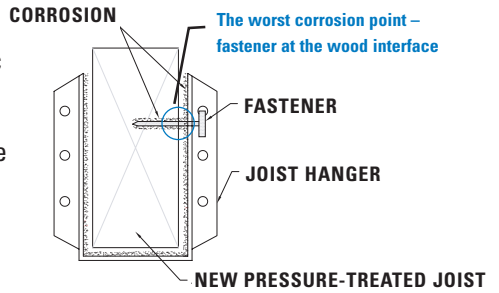


TM

"Grace Vycor Deck Protector is the only barrier membrane solution evaluated by Simpson Strong-Tie. It offers additional corrosion protection when applied between pressure-treated wood and galvanized metal connectors."

The Corrosion Mechanism

When two dissimilar metals (the copper from the wood preservatives and the zinc from the galvanized metal) come into contact with one another, in the presence of moisture, an electric circuit is created and corrosion occurs. This same mechanism makes batteries work.



Although CCA also contained copper, its other chemical components (chromate and arsenate) acted as corrosion inhibitors and slowed down corrosion. Therefore CCA wood had been successfully used for years.

How Does Grace Vycor Deck Protector Work?

Grace Vycor Deck Protector is the first uniquely formulated solution to help reduce corrosion of galvanized metal connectors. It is installed between the connector and the pressure-treated wood and acts as a barrier layer to break the electric circuit and thus helps reduce corrosion.

Grace Vycor Deck Protector also helps reduce the corrosion rate of galvanized nails that attach the connectors to the treated wood, by separating them from the corrosion influence of the large connector (i.e. joist hanger). The corrosion rates of these fasteners may not be at the level seen with CCA wood.

Use hot-dip galvanized (HDG) fasteners per ASTM A153 when attaching galvanized metal connectors. HDG fasteners optimize structural and corrosion performance in these applications.

Use fasteners per the manufacturer's recommendation when attaching the surface decking boards to the supporting joists.

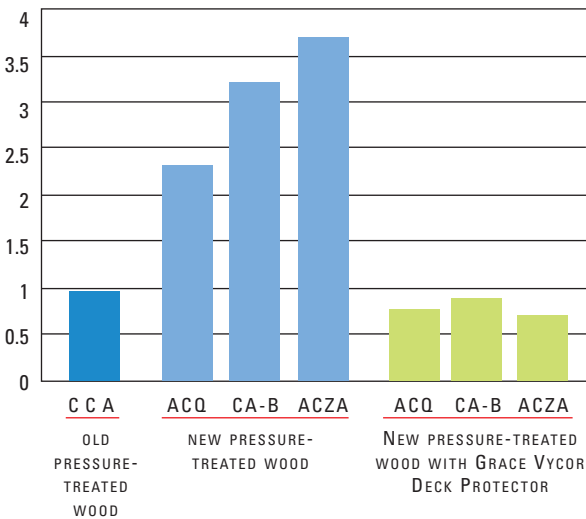
Galvanized joist hanger attached to ACQ wood, 7 months; wet conditions.



Corrosion can become visible in a very short period of time – weeks or months, rather than years.

Grace Vycor Deck Protector reduces the corrosion rates of galvanized connectors in contact with the new pressure-treated wood back to the historical level of CCA wood.

Relative Corrosiveness of Wood Preservatives*



* Testing conducted by Grace and Simpson Strong-Tie; results after 2 months accelerated corrosion testing.

NO SIGNS OF CORROSION



HISTORICALLY USED CCA WOOD

ADVANCED CORROSION



NEW PRESSURE-TREATED WOOD

NO SIGNS OF CORROSION



NEW PRESSURE-TREATED WOOD WITH GRACE VYCOR DECK PROTECTOR

GALVANIZED METAL AFTER 1 MONTH, CONTINUOUS WET CONDITIONS.

(NOTE: Red rust indicates ADVANCED CORROSION of galvanized coating)

**Differentiate yourself
from your competitors.
Use Grace Vycor
Deck Protector to**



- Improves durability of deck structures
- Enhances deck aesthetics and longevity
- Minimizes unnecessary repairs and costly call-backs
- Provides inexpensive protection (approximately \$50 material cost for a 400 sq. ft. deck)
- Provides fast and easy to use solution

Grace Vycor Deck Protector makes corrosion prevention a snap. It's a fast, easy, cost effective solution.





How to install Grace Vycor Deck Protector



Step 1:

Apply Grace Vycor Deck Protector onto face of ledger board. Roll firmly into place.



Step 2:

Install joist hangers on ledger board and rim joist.



Step 3:

Wrap ends of joists with Grace Vycor Deck Protector.



Step 4:

Install the wrapped joists into hangers and fasten accordingly.

For more installation details, contact your local sales representative and/or visit our web site.

Note: Use hot-dip galvanized (HDG) fasteners per ASTM A153 when attaching galvanized metal connectors.

Note: Use fasteners per the manufacturer's recommendation when attaching the surface decking boards to the supporting joists.

Features of Grace Vycor Deck Protector

- Unique adhesive and membrane composition provides corrosion protection
- Prevents water infiltration at deck fasteners
- Skid resistant coating for easier foot traffic during installation
- Compatible with all decking materials
- Handy roll sizes
- Measurement markings on the surface for ease of application

Precaution and Limitation Guidelines

Use hot-dip galvanized (HDG) fasteners per ASTM A153 when attaching galvanized metal connectors. Use fasteners per the manufacturer's recommendation when attaching the surface decking boards to the supporting joists.

Use for all applications where the wood is subject to wet conditions.

Apply in fair weather when the air, surface and membrane are at temperatures of -4°C (25°F) or higher. Install onto a clean surface. Remove dust and dirt. Surfaces shall have no damaged or unsupported areas. Joints between wood members should not exceed 1/4 inch.

Using the 6 inch and 12 inch measurement markings, cut the membrane to the desired length. Install the membrane such that all laps shed water – the top membrane layer should go over the bottom layer. Stapling of the membrane is optional and can promote adhesion.

To ensure corrosion protection, Grace Vycor Deck Protector should completely separate the pressure-treated wood from the galvanized metal connector. Be careful not to damage the membrane during application. If torn or damaged, the corrosion protection performance of the system could be negatively affected.

Due to the slight asphaltic odor, do not leave the membrane exposed to interior living spaces. Applications within wall/ceiling cavities may be acceptable, if the membrane is trimmed around the connector.

Grace Vycor Deck Protector may be incompatible with certain solvents/caulking and high concentration of resin and pitch. See our website for more information.

Do not use in hot desert areas of southwestern United States.

Typical deck applications (such as on ledger boards/rim joists or underneath joist hangers) may expose Grace Vycor Deck Protector only to indirect sunlight (with limited intensity) and only for short periods of the day, if at all. Such UV exposure is acceptable. The product should not be left permanently exposed to direct sunlight. It is recommended that Grace Vycor Deck Protector be covered within 30 days. However, exposures of up to 60 days may be acceptable when the membrane is used for corrosion protection. It is recommended that the product be trimmed around the connector to limit the direct UV exposure (for instance, at post bases).

Exercise caution and follow the appropriate OSHA fall protection guidelines when walking on membrane. Do not install membrane on roof.

Insects cannot ingest, live or breathe in the membrane.



For more information visit our web sites at
www.graceconstruction.com and www.graceathome.com.

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Simpson Strong-Tie is a registered trademark of The Simpson Strong-Tie Company, Inc.

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