

The Dual Fix Hybrid System

*The Strongest, Most Secure Installation Method
For A Long-Lasting Concrete Tile Roof System*



USA Owned. USA Made.

Your Roof Matters. Protect Your Most Important Investment With The Best Underlayment In Its Class.

EAGLE ARMOR by

Your roof protects your home, your loved ones and your valuables. Everything that you hold dear. So, give it the consideration it deserves by ensuring that its foundation is protected with the best building products.

Eagle Armor by APOC is a premium, all-purpose fleece top underlayment and leak barrier that is installed on the surface of the roof deck. A quality and reliable roofing product, it is specially formulated to handle the most extreme of weather conditions, protecting residential buildings from hot, humid conditions, blistering sun, rain, wind and more.

The strongest and most durable underlayment in its class, Eagle Armor by APOC:

- is made in the USA,
- is UV Protected & High Temperature Resistant,
- has an Exposure Rating of 180 Days,
- reduces the possibility of Wind Driven Rain, Ice Dams, Leaks & Water Damage,
- is ASTM E108 and UL 790 Tested: Class A Assembly under Eagle Concrete Roof Tiles,
- comes with a 30 Year Warranty provided by APOC.

Easy to install, Eagle Armor by APOC is the perfect complement to The Dual Fix Hybrid System.



**For The Ultimate Line Of Defense Against The Elements,
Install Eagle Armor By APOC.**

For more information or to receive a free sample, visit eagleroofing.com/eagle-armor

The Dual Fix Hybrid System

Maximum Durability, Optimal Wind Uplift Prevention

Eagle's Dual Fix Hybrid System combines the proven and verifiable security of mechanical fasteners, specifically **tile screws**, with the added uplift resistance and walkability of **single component tile adhesive**. A superior installation method of attaching the roof tile to the deck, this remarkable hybrid system offers optimal wind uplift resistance and maximum durability for greater protection against the elements.

The Best of Both Worlds

Mechanical Fasteners—Tile Screws + Single Component Tile Adhesive

Compared to nails, tile screws have the advantage of not backing out and have stronger holding abilities. Screws also self-seal as they're driven down through the decking and a self-adhered underlayment that conforms to ASTM D-1970. The existence of tile screws is easily verifiable from the attic.

Tile Adhesive is a lightweight fastening option that provides strong adhesion without penetrating the roof. In addition, it also facilitates greater walkability due to the "cushion" that the foam paddy provides creating a solid roof. This lessens the risk of cracked tiles.



The Dual Fix Hybrid System provides the verifiable and proven peace of mind of knowing that the roof system is secure. Whereas with a dual-component tile adhesive installation, it takes post-installation destructive testing or a wind event to determine if the concealed attachment method was mixed properly, installed as prescribed (proper paddy size and placement) or actually exists.

For more information on The Dual Fix Hybrid System, visit eagleroofting.com

Product Approval FL 17326 R3 is also located on our website.

Mechanical Fasteners and Tile Bond Roof Adhesive are not products of, nor warranted by Eagle Roofing Products.

Tile Adhesive and Tile Screws: The Power of Two Fastening Systems



If you live in a region that is prone to windstorms and/or tropical storms, the high winds associated with these pressure systems have the potential to cause a great deal of property damage.

The Dual Fix Hybrid System is an installation method that combines the attachment advantages of tile screws and adhesive foam to provide building owners and homeowners with the highest levels of wind resistance. Used together, it's a powerful solution that provides peace of mind.

To create this dynamic hybrid system, Eagle Roofing Products has teamed up with Dupont to incorporate their **Tile Bond™ Roof Adhesive**, a portable one-component polyurethane foam adhesive that is used to attach concrete roof tiles. This foam delivers the highest level of performance, providing greater attachment strength than traditional methods. In addition, one of the biggest advantages of Tile Bond is that it is approved for building codes in hurricane zones.

For roofing contractors, it is easy to use, quick to install and no calibration is needed. It's an excellent choice for all new, reroof and specialty applications as it minimizes nail penetrations and reduces roof weight loads. Packaged in a self-contained disposable can or canister, Tile Bond is also economical—yielding up to 350 tiles per 23-pound tank.

Tile Bond™ offers a number of convenient features:

- Re-start ability—cylinder can be easily shut off, stored and re-started numerous times to ensure full use of product
- Lowest cost per installed tile among single component adhesives
- Moisture-cured—can be used on wet substrates
- Improved efficiency—can have multiple installers working at once
- Proven to not lift tiles
- Texas DOI, Miami-Dade County and Florida Building Code approved
- Hurricane-zone qualified



Eagle's Dual Fix Hybrid System Advantages

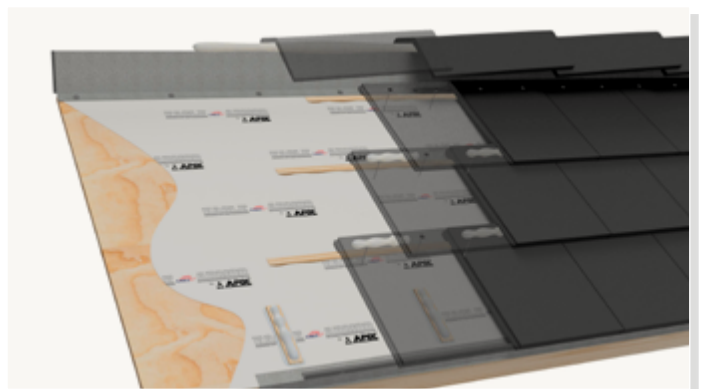
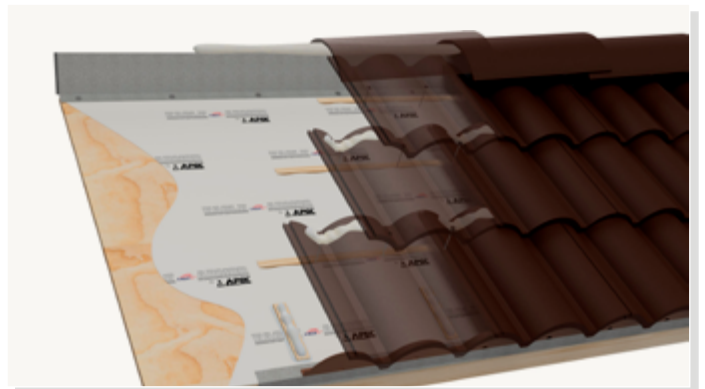
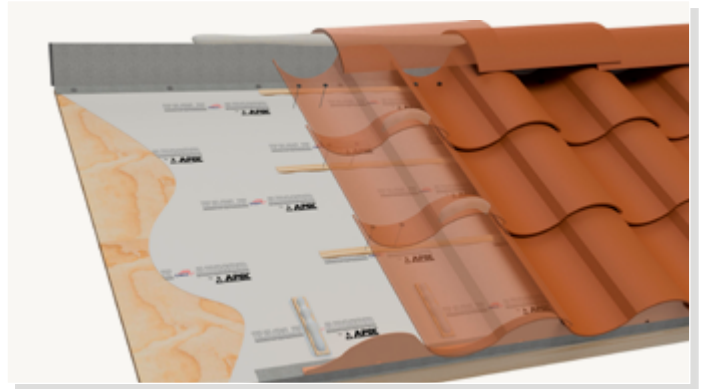
Cost: Compared to a dual-component foam tile adhesive installation, the attachment cost of **Eagle's Dual Fix Hybrid System** is up to 25% less per square than a large paddy dual component foam application.

Performance: **The Dual Fix Hybrid System** provides superior uplift protection for wind speeds of **180mph and above** on all* Eagle Roofing Products' concrete roof tile profiles, meeting 99% of all Florida roofing installation scenarios which are some of the most stringent in the country. *On all but a few coastal region "Capistrano" installations (Eagle's high-profile tile).

Peace of Mind: When you compare the installation methods of dual-component foam vs. **Eagle's Dual Fix Hybrid System**, the differences are significant. The dual-component tile adhesive system's performance relies significantly on the underlayment's adhesion to the roof deck for wind uplift resistance. Was the deck clean and dry upon attachment of the underlayment? Can the underlayment withstand the gravitational pull of tile for several years? **The Dual Fix Hybrid System** eliminates these performance detracting variables.

On the other-hand, **Eagle's Dual Fix Hybrid System** provides peace of mind by:

- positively affixing the roof tiles, with tile screws, through a waterproof self-sealing underlayment,
- using tile screws which transfers the weight of the tile to the structure so the underlayment isn't solely relied on or made vulnerable to sliding or slipping,
- using a single component tile adhesive as a secondary attachment method at the overlap essentially glues down the area of the tile most prone to uplifting,
- providing an extra cushion against tile breakage; the single component foam acts as a pad to cushion foot traffic, which lessens the risk of cracked tiles,
- providing an easy-to-use installation method that does not require calibration of the foam cylinder to guarantee positive attachment while the tile screws provide verifiable proof of fastening.



Whether it's a new construction or re-roofing project, The Dual Fix Hybrid System combines the best of both worlds by using a bead of Tile Bond at the overlap and tile screws in every tile resulting in a truly superb tile roof system that offers enhanced walkability and uplift resistance capable of withstanding the most severe of storms.

For more information on The Dual Fix Hybrid System, visit eagleroofting.com

About Eagle Roofing Products

When you choose Eagle, you are choosing beauty, quality, durability and sustainability. More importantly, you are picking a company that takes the needs of their customers seriously and is always here to help. As America's #1 manufacturer of concrete roof tile, we strive to provide our customers with superior roofing products while building long-lasting relationships. That's what inspires us to be your company of choice. **That's what makes us different.**



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