



Installation Instructions:

Rev April 20, 2021

USE: Cobalt *FRM* is a mechanically attached, fire retardant, and nail sealable synthetic roofing underlayment designed for sloped roofing applications. This product offers significant contribution towards achieving a UL Class A fire rated roofing system while at the same time offering a nail sealable waterproofing membrane in just one layer. Cobalt *FRM* offers a unique patent pending design that features a dedicated fireproofing layer with an inner butyl adhesive waterproofing layer. This product does not require removal of a release liner like other self-adhered products and therefore avoids complications associated with installing a self-adhered underlayments. No more wasted materials during the installation process or issues removing the underlayment from the deck for re-roof or alterations. Cobalt *FRM* is specifically designed for use in achieving a UL Class A roofing system, meaning that the roof assembly passes flame spread, intermittent flame, and burning brand tests. This product is designed for use under the following primary roofing materials; class A asphalt glass fiber mat shingles, concrete and clay tiles, and UL listed metal or copper roofing.

DECK PREPARATION: Cobalt *FRM* should be installed over a clean, smooth, and dry deck. The deck should be structurally sound and should not have any voids, protrusions, damaged or unsupported areas. For re-roofing projects, replace any water damaged sheathing and sweep roof deck thoroughly removing dust, dirt and loose nails. Do not install over old roof covering.

FASTENERS: For best performance and extended exposures up to 180 days Cobalt *FRM* should be installed with 1" diameter plastic or metal cap preferred corrosive resistant roofing nails with 1" leg or greater (ring shank preferred).

If Cobalt *FRM* is to be covered within 5 days by primary roofing it can be installed with corrosive resistant 3/8" head roofing nails with 1" leg or greater (ring shank recommended). In this case every other anchoring point in the field of the product is acceptable. Note: Use of staples is not recommended and may result in blow off or leakage around fastener penetrations during a rain or high wind event.

For coastal areas and extended exposure conditions where driving rain or strong winds are expected it is recommended to take additional precautions such as doubling lap widths, adding an adhesive on overlaps, and/or taping all underlayment overlap seams including the perimeter edges of the roof. For taping consider FT Copperhead butyl roofing tape. For adhesive use a low solvent plastic roofing cement meeting ASTM D-4586 Type 1 or Federal Spec SS-153 Type 1, such as Karnak, Henry, DAP or equivalent.

APPLICATION: For slopes **4:12 and greater** Cobalt *FRM* underlayment is to be installed horizontally (parallel to the eave) with the printed side up using the provided lap lines. Use 6" vertical laps and 4" horizontal laps. Underlayment to be installed in shingle lap fashion starting at the bottom edge of the roof deck to ensure that the water runs over the overlaps without getting under the material. Align the underlayment to the edge of the rake and eaves. Cobalt *FRM* should be applied under the metal drip edge along the rakes and over the metal drip edge along the eaves unless otherwise specified by local building codes. Do not fold Cobalt *FRM* over the roof edge unless this edge is to be subsequently covered over by a drip edge or other flashing material. Note: All end laps of succeeding courses should be offset by a minimum of 6 feet. Cobalt *FRM* to be fastened using the nail pattern as printed on the product. All anchoring



must be performed snug and hammered flush and at 90 degrees to the roof deck, ensuring the material surface is held tightly with the roof deck. Do not install fasteners over unsupported areas/voids. Extend product a minimum of 12" past all hips and valleys, and lap up onto walls and abutments a minimum of 8". For batten secured installations use appropriate length ring shank nails or screws to secure battens to the roof deck, staples are not recommended. Do not install battens over cap nails.

For **low slope** applications between 2:12 and 4:12 it is recommended to double the vertical and horizontal overlap Note: This product is not recommended for slopes less than 2:12 for use as a waterproofing membrane. For slopes less than 2:12 it should only be considered applicable as a fire retardant barrier.

If also installing an ice and water protection barrier it should be installed first along the eaves and in the valleys. It is recommended to use an ASTM D1970 approved waterproof membrane such as FT Platinum HTB or Komodo BSA. It is recommended to install the ice and water protection direct to the roof deck before applying the Cobalt FRM starting from the eaves up the roof to a point not less than 24 inches inside the exterior wall, measured horizontally. Consult your local building code for specific requirements. For additional rake edge waterproofing apply a minimum 6" strip of adhesive backed roofing seam tape flush to the rake edge on top of the Cobalt FRM, then install the metal drip edge. Consider using FT Copperhead butyl roofing seam and flashing tape.

Repair holes, fish mouths, tears, and any other penetration damage to the Cobalt FRM membrane with a round patch of self adhered water proofing membrane extending passed the damaged area by 6 inches in all directions. Do not install fasteners through membrane over any unsupported areas of the structural deck, such as over joints between adjacent structural panels.

PRECAUTIONS:

Cobalt *FRM* is a moisture and vapor barrier and therefore must be installed above a properly ventilated space(s). Follow ALL building codes applicable to your geographical region and structure type. Cobalt FRM is not designed for indefinite outdoor exposure. Final roofing should be installed within 180 days of underlayment installation.

These provided Installation instructions are designed to offer recommendations to achieve best performance from our products. However, it is imperative that you follow ALL local building codes or architectural specifications applicable to your geographical region and structure type.

For commercial applications and low slope projects please consult an appropriate roofing architect for specific product applicability and application instructions.

CAUTION – Read Good Safety Practice Below

As with any roofing product, always follow safe roofing codes & practices (OSHA) and always use and wear fall protection devices when working on roofs. Release liners are slippery and should be removed from work area immediately after application. Use caution when walking or standing on Platinum as slip resistance may vary with surface conditions, weather, footwear and roof pitch. Failure to use proper safety gear and footwear can result in serious injury.