

DUPONT™ TYVEK® FLUID APPLIED WEATHER BARRIER SYSTEM



An integral part of a complete weatherization solution

Mirador Retirement Community, Corpus Christi, TX

If there's one place people expect and deserve to feel protected, it's inside the walls of a senior living community. That's why Mirador Retirement Community turned to DuPont™ Tyvek® Weatherization Systems to help effectively seal the building envelope of its new residence in Corpus Christi, Texas. The Mirador project featured DuPont™ Tyvek® Fluid Applied Weather Barrier (WB) System, which was integrated with DuPont™ Tyvek® CommercialWrap® and DuPont™ Flashing Systems during construction to protect the building from the area's coastal climate.

DuPont™ Tyvek® Fluid Applied WB System offers the superior protection and industry-leading performance of DuPont™ Tyvek® CommercialWrap®. The product is fast and easy to apply on concrete and CMU, and boasts high vapor permeability, which made it an ideal choice for Mirador's general contractor. Andres Construction Services used Tyvek® Fluid Applied WB System to protect the building's CMU block in the kitchen area and to bridge transitions between the CMU and gypsum-covered metal stud walls. The George D. Alan Company was the waterproofing contractor that provided installation.

“I valued the ability of Tyvek® Fluid Applied WB System to maintain its thickness after drying, making installation easier and efficient,” said Chuck Newton of Andres Construction Services. “This allowed us to save time in our construction schedule”. Mike Deck, with The George D. Alan Company added “We were happy with the install and how Tyvek® Fluid Applied WB System was a vapor permeable product to compliment the DuPont™ Tyvek® CommercialWrap®.”

Mirador's architect, Hunt Fugate of Three Architecture, appreciated how easy it was to protect the varied substrates and transitions on the walls of the structure – a task that can often prove complex and time-consuming.



DUPONT™ TYVEK® FLUID APPLIED WEATHER BARRIER SYSTEM: AN INTEGRAL PART OF A COMPLETE WEATHERIZATION SOLUTION

“Using the combination of Tyvek® Fluid Applied WB System and DuPont™ Tyvek® CommercialWrap® allowed us to quickly and effectively weatherproof each substrate type, as well as the transition between the two systems,” said Fugate. “We also liked being able to get all of our weatherproofing materials from DuPont – it was a ‘one-stop-shop’ that offered brand and warranty consistency,” he added.

To ensure the most effective installation, the construction team worked closely with members of the DuPont™ Tyvek® Specialist Network, an elite team of highly-skilled field representatives unique to the industry, who offered on-site consulting and training.

CONSIDERATIONS

- Specifying a weather barrier system to deliver an air and water holdout solution with vapor permeability capable of sealing a commercial CMU block and the transitions between substrate types
- Compatibility with other DuPont weatherization products and their warranties used on the project
- Ensuring ease of prep, use and removal

CHALLENGES

- Incorporating products to meet the mandatory water and air hold-out requirements of the commercial construction marketplace
- Installing products that ensure maximum comfort and energy efficiency inside the building
- Integrating products with other building envelope components correctly and effectively

SOLUTIONS:

- Tyvek® Fluid Applied WB System boasts high vapor permeability at 25 perms, while providing the ideal combination of superior air and water holdout, helping to improve energy efficiency
- Tyvek® Fluid Applied WB System can be applied by spraying or power-rolling, saving valuable time, and yields two-to-three times as much coverage per gallon as competing products

- Combining low shrinkage with high elongation and elastic recovery allows Tyvek® Fluid Applied WB System to stretch and move with the building, resulting in minimal cracking and requiring only one coat of coverage
- Members of the DuPont™ Tyvek® Specialist Network collaborated with the local contractor to offer on-site building solutions expertise
- Tyvek® Fluid Applied WB System works seamlessly with the complete DuPont™ Tyvek® Weatherization Systems portfolio

BENEFITS

- Tyvek® Fluid Applied WB System controls air leakage and helps provide an airtight building enclosure that performs in any climate, allowing for a more energy-efficient structure by reducing the amount of energy required for heating and cooling
- DuPont is currently the only company that offers both fluid applied and commercial building wrap systems, providing a “one-stop-shop” for commercial weatherization
- Tyvek® Fluid Applied WB System helps to improve indoor air quality by providing protection from bulk water intrusion into the wall system, and allowing moisture vapor to escape, which can help prevent the growth of mold and mildew in the wall system
- Tyvek® Fluid Applied WB System withstands up to nine months of UV exposure, allowing the installation of commercial facades to be done after 24 hours of drying time, or up to nine months later
- Tyvek® Fluid Applied WB System is backed by the building science expertise of DuPont and a 10-year limited warranty that provides peace of mind when installed properly to ensure maximum performance
- Tyvek® Fluid Applied WB System products are low VOC and are part of DuPont™ Weatherization Systems, which can help contribute toward U.S. Green Building Council LEED® points

THE DUPONT™ TYVEK® FLUID APPLIED WEATHER BARRIER SYSTEM INCLUDES:

- DuPont™ Tyvek® Fluid Applied Weather Barrier
- DuPont™ Tyvek® Fluid Applied Flashing & Joint Compound
- DuPont Sealant for Tyvek® Fluid Applied System
- DuPont™ Tyvek® Fluid Applied Flashing-Brush Formulation

DUPONT™ TYVEK® WEATHERIZATION PRODUCTS USED ON MIRADOR PROJECT:

- DuPont™ Tyvek® Fluid Applied Weather Barrier
- DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound
- DuPont™ Tyvek® CommercialWrap®
- DuPont™ FlexWrap®
- DuPont™ StraightFlash™
- DuPont™ StraightFlash™ VF
- DuPont™ Tyvek® Tape

For more information on DuPont™ Tyvek® Weatherization Systems, please call 1-800-44-TYVEK or visit www.fluidapplied.tyvek.com