Project Profile

PremiumCoat® System

Applying BarrierGuard slurry

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Gloria Marshall Elementary, Spring TX

Gloria Marshall Elementary is a unique school for Spring Independent School District (ISD), Spring TX. Not only is it their 26th elementary school, but it's the first LEED Gold certified school project to be constructed in Texas. It initially began as a "repeat" design of other schools in the district to save money, but it developed into the "greenest" without adding *any* additional costs to the budget. This led to an original, sustainable, high-performance school designed as a teaching tool to educate generations of students about resource conservation.

The school has photovoltaic cells on top to generate electricity, it uses geothermal heating and cooling, is designed to harvest the natural daylight to light the classrooms, has an on-site wind turbine, uses collected rainwater to flush toilets, reused the trees cleared from the build site as furniture, and has a highly-reflective, sustainable PremiumCoat® roofing system to top it all off.

Naturally, because of the school's green initiative, HydroStop's PremiumCoat® System became the roof system of choice for the SHW Architect Group in conjunction with Spring ISD. HydroStop was selected as the choice supplier when they saw that the other roofing specs weren't in line with the green initiatives they were pursuing through USGBC's LEED Gold guidelines and Collaborative for High Performance Schools' (CHPS) criteria.

The PremiumCoat® System complied with the LEED Gold certification qualifications, which was essential. These requirements included zero-waste construction. Our environmentally-friendly, water-based acrylic (the PremiumCoat® system components) comes in reusable, recyclable containers. Our rolls of PremiumCoat® fabric are packaged on cardboard tubes, also 100% recyclable. Since the » *continued on back*

Information:

- **Total Square Footage:** 67,000 ft²
- **System(s) Applied:** PremiumCoat® System over new lightweight concrete
- **New Construction**

FoundationCoat

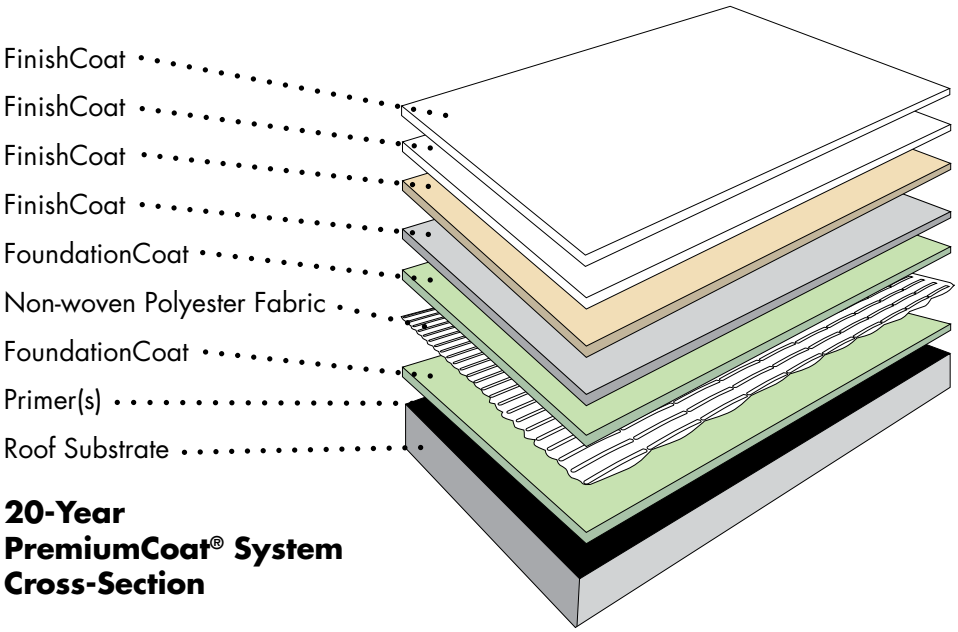
FoundationCoat & FinishCoat application

components of the PremiumCoat® System are water-based, the finished product posed no threat to the school's rainwater collection efforts. The rainwater captured on top of the roof is filtered off and used by the school as greywater to flush toilets.

PremiumCoat® is a great reroof option, but it's also an ideal choice for new construction. Unlike traditional roofing systems, a job with a PremiumCoat® roof can begin interior construction *before* the roof system is complete. The new lightweight concrete was treated with two coats of BarrierGuard® slurry to seal the concrete. SureBond®, an acrylic primer, was used to neutralize the pH of the concrete and prepared the substrate to receive the PremiumCoat® Roof System. PremiumCoat® is a fluid-applied acrylic system reinforced with a non-woven polyester fabric. The final product is a seamless roofing system that fully encapsulates all roofing penetrations and parapet walls, resulting in a leak-free roof.

The SHW Architect Group chose white as the color for the final FinishCoats due to its highly reflective finish. PremiumCoat® FinishCoat white is a CRRC (Cool Roof Rating Council) listed, ENERGY STAR® approved, and California Title 24 compliant "cool roof" system. With a 79% reflectivity and a 90% emissivity, PremiumCoat®'s FinishCoat white carries a SRI value of 99.

PremiumCoat®: a non-traditional roof system specified to meet the challenges of building a non-traditional school like Gloria Marshall Elementary in Spring, TX. ■



20-Year PremiumCoat® System Cross-Section

Gloria Marshall Elementary - interior courtyard

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