

Completion Report

Client: Mountain Empire USD

Facility: Campo Elementary School Report Date: 08/02/2021

Roof Section: North & South Wing

Report Data

Title Garland LiquiTec Fluid-Applied Roof System

The following report provides photo documentation of a Garland LiquiTec fluid-applied roof system installation completed recently at Campo Elementary School (part of Mountain Empire Unified School District.)

The existing roof system was a Mineral Modified Bitumen with a 1/2:12 slope. It was ~20 years old and beginning to show signs of aging (mild cracks in the membrane, mineral granule deterioration, a few blisters, failed seams at various points on the roof etc.)

After core-cutting the roof and conducting an overall inspection, it was determined that the roof system was not failed. No thermal scan was necessary as there was no existing insulation in the roof assembly. The roof was deemed a candidate for restoration using a fluid-applied roof system.

Garland roofing materials were procured by Mountain Empire Unified District, via its authority under the CMAS schedule, and the labor was competitively bid.

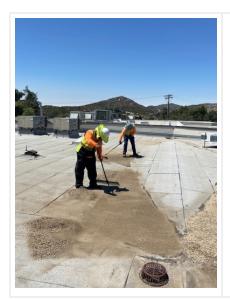


Photo 1

Aggregate was removed from the roof.

It has previously been installed by in-house maintenance on the low points of the roof to defend against ponding water.

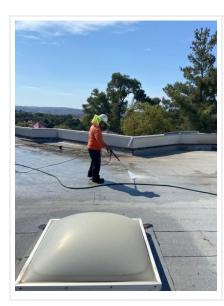


Photo 2

The entire roof system is pressure-washed free of dirt and debris.



Photo 3

The entire roof system is pressure-washed free of dirt and debris.



Photo 4

Coping joints sealed with Garland's Tuff Stuff MS urethane sealant.



Photo 5

Blisters are cut open, primed with Garla-Prime VOC, and new SBS-modified cap sheet (StressPly IV Plus Mineral) is torch-applied.



Photo 6

Existing 22 ga galvanized counter-flashing is removed prior to base flashing reinforcement.



Photo 7

StressPly IV Plus Mineral (SBS-modified membrane) is torch-applied over the existing base flashings around the entire perimeter of the roof.



Photo 8

StressPly IV Plus Mineral (SBS-modified membrane) is torch-applied over curbed base flashings.



Photo 9

StressPly IV Plus Mineral (SBS-modified membrane) is torch-applied over base flashings.



Photo 10

LiquiTec base coat is applied at 4.0 gal per sq.

Polyester fabric is embedded into the coating while it is applied. The polyester serves as a reinforcement layer between the base & top coat.



Photo 11

LiquiTec base coat is applied at 4.0 gal per sq.

Polyester fabric is embedded into the coating while it is applied. The polyester serves as a reinforcement layer between the base & top coat.



Photo 12

LiquiTec base coat is applied at 4.0 gal per sq.

Polyester fabric is embedded into the coating while it is applied. The polyester serves as a reinforcement layer between the base & top coat.



Photo 13

LiquiTec base coat application at 4.0 gal per sq. with polyester fabric embedded.



Photo 14

LiquiTec base coat application at 4.0 gal per sq. with polyester fabric embedded.



Photo 15

LiquiTec top coat is applied over all penetrations and base flashings at 2.0 gal per sq.



Photo 16

LiquiTec top coat is applied over all penetrations and base flashings at 2.0 gal per sq.



Photo 17

LiquiTec top coat is applied on the entire field of the roof at 2.0 gal per sq.



Photo 18

LiquiTec top coat is applied on the entire field of the roof at 2.0 gal per sq.



Photo 19

LiquiTec top coat is applied on the entire field of the roof at 2.0 gal per sq.



Photo 20

LiquiTec top coat is applied on the entire field of the roof at 2.0 gal per sq.



Photo 21

LiquiTec top coat is applied on the entire field of the roof at 2.0 gal per sq.



Photo 22

Canopies are re-roofed with a Garland 2-ply Modified Bitumen roof system (coated with Pyramic Plus LO urethane-acrylic coating)