

KTLA MT. Wilson

When a roof absolutely positively cannot leak, what are you going to use?

Last winter on rainy afternoon, Century Roofing got a frantic call from KTLA about a leaking roof on top of Mount Wilson. The building that housed the electronic equipment next to their broadcasting antenna was leaking. If the equipment inside got wet it could blow out their signal, knocking them off the air. Working into the night, temporary repairs were made.

When it rains a couple of inches in the valleys, Mount Wilson can get up to eight inches of rain or even several feet of snow. The weather up there is very unpredictable and can be very extreme. Something had to be done.

KTLA was familiar with a very durable reinforced roof maintenance system that had been applied on several of their stages. Century Roofing had introduced them to this procedure several years earlier and it worked so well that KTLA had it applied on most of the flat roofs on the studio lot.

Polyester & Rubberized Emulsion Extra Tough Roof

It was agreed that a special system designed for harsh conditions would be used on the building on the mountain. The system uses Energy Seal Coating's Acu-Fabric and Acu-Shield coating applied in two coats and rubberized emulsion.

The roof had an overhead deck covered with an ice shield making it tough to work on the roof. The workers had to labor in a crouching position to get the job done. Rock in the valleys of the roof had to be spudded off and primed before the emulsion maintenance system could be installed.

Flashings were primed and two layers of an Energy Seal's Acu-Shield and Acu-Fabric were applied. The drains on the roof were cut back and a lead sheet that would allow expansion and contraction was installed. Rubberized elastomeric cement was applied and two layers of Acu-Fabric polyester embedded into the rubbery material around the drains.



KTLA building housing the complex electronic equipment for signal broadcast.



Rock is spudded off and removed.

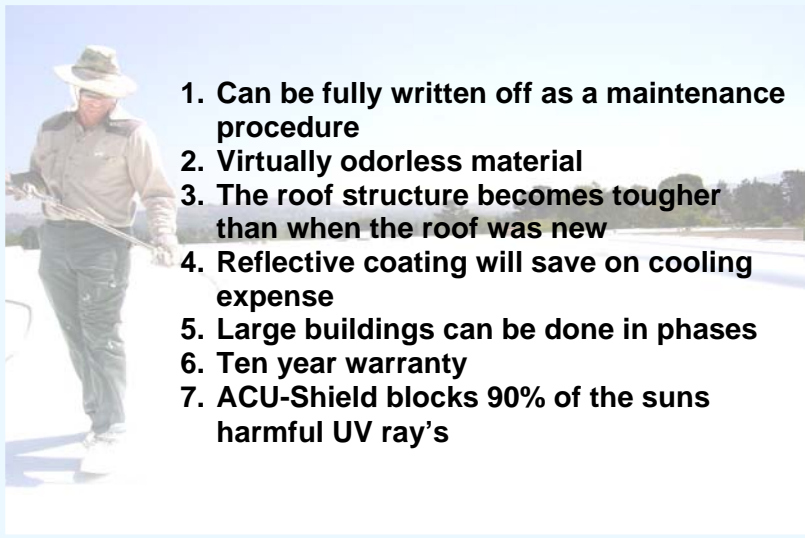


All vents and pipes are scraped down and prepared for the Energy Seal's Acu-Caulk: Brush Grade.

Six gallons per 100 square feet of rubberized emulsion was applied to the roof deck followed by one layer of Acu-Fabric. This process was repeated for a total of two layers. A final coating of six gallons per 100 square feet of rubberized emulsion completed this phase of the job.

After the rubberized roof cured, Acu-Shield white acrylic coating was applied. The acrylic coating blocks 90% of the sun's UV rays and protects the new system from the high altitude sun. It will also stretch along with the rubberized material underneath, giving the roof flexibility.

Polyester and Emulsion Provides the Following Benefits



1. Can be fully written off as a maintenance procedure
2. Virtually odorless material
3. The roof structure becomes tougher than when the roof was new
4. Reflective coating will save on cooling expense
5. Large buildings can be done in phases
6. Ten year warranty
7. ACU-Shield blocks 90% of the sun's harmful UV rays

Century Roofing has been using rubberized emulsion and acrylics for three generations. We have been combining them with tough polyester reinforcement material for 17 years.

If you have tough, difficult or unusual waterproofing concerns, we can help.

May we put **three generations** of waterproofing know how to work for you?

Century Roofing

.....Lic. No. 793960

.....**Three generations in roofing**

8218 Ensign St.
Sun Valley, Ca. 91352



Elastomeric cement is reinforced with fiberglass around all vents.



Installing polyester and rubberized emulsion.



The finished roof

Drain Detail



The collar on this jolsum drain is cut back.
Notice that the overflow has been covered up.



The old roofing material has been cut away from the drain and overflow.



A piece of lead is shaped for the drain.



Henry's 209 flexible mastic is applied to both the lead and the area around the drain.



The lead is pressure sealed to the drain.
Henry's 209 and fiberglass web are set around the perimeter of the drain.



Elastomeric cement and soft polyester waterproof the drain.



The completed drain. The elastomeric cement and Acu-Shield acrylic coating will keep the roof from splitting even in the harshest winters on the mountain.

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Ultimate Roof

