

EXTENDED CASE STUDY

PROJECT – INTERMOUNTAIN HEALTH CARE'S POCATELLO
REGIONAL MEDICAL CENTER ROOF
POCATELLO, IDAHO

MEMBRANE SYSTEM – DECOTHANE

The Pocatello Regional Medical Center in Pocatello, Idaho has a 100,000 ft² BUR with aluminum mastic topcoat with a myriad of local leaks around penetrations, drains, expansion joints, parapet details and various spots on the roof. Dissatisfied with conventional mastic and BUR spot repairs, PRMC decided to use localized repair applications of an elastomeric polyurethane roofing membrane called Decothane.

Medical Office Buildings have been done with Decothane system. 1999 & 2000





Picture taken Spring of 2000. Note Medical Office Building EPDM Roof and Decothane on main hospital roof.

Decothane is a cold, fluid applied, single-component, high solids, moisture-triggered, elastomeric polyurethane roofing membrane that will bond seamlessly to most existing roofing membranes and perform for the long term, as long as the insulation underneath is not grossly saturated. Decothane will maintain its continuity of protection without cracking or splitting at joints, cracks and other discontinuous surface qualities. Since it is moisture triggered, it is insensitive to excess moisture or humidity conditions at the time of application and can even be rained on while still wet right after application with no detrimental effects on cure or integrity.

The repair procedure utilizing Decothane involves cleaning the existing roofing substrate to remove contamination and unsound substrate conditions, priming, application of an embedment coat (Decothane with embedded conformable random woven fiberglass reinforcing scrim) and a topcoat of Decothane as soon as the other coats are dry.

PHOTOGRAPH NO. 1 - PRIMING



PHOTOGRAPH NO. 2 – OVERALL VIEW OF ROOF REPAIRS





PHOTOGRAPH NO. 3 – OVERALL VIEW OF DRAIN AND PARAPET REPAIR



PHOTOGRAPH NO. 4 – CLOSE-UP VIEW OF DRAIN REPAIR

All local leaking areas and details have now been repaired. As budget considerations allow, the facility intends to start recoating the roof with a reinforced Decothane Roofing Membrane System to eventually realize a seamless long-term performing roofing system that will not leak and will have no maintenance for the design warranty period of the membrane system.

Since the writing of this case study, two of the medical office buildings in the main hospital picture have been done with the Decothane Omega-15 system over top of EPDM rubber mechanically fastened to the roof deck. Each roof is approximately 10,000 square feet.



Complex drain and expansion joint configuration after 4 years of service.



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