



Unit B2, 39 Arrenway Drive
Albany, Auckland
New Zealand

North Shore Hospital - Auckland New Zealand

Ward 14 – part only – Work was completed Nov 2018

This project was undertaken on the roof of Ward 14 on a hospital due to leaking issues. The hospital had an existing aluminium roof, and some ward rooms could not be occupied due to leaks. Removal of the roof or shrink wrapping was not feasible and the hospital was unable to move the patients from the ward. One Coat application was the most cost effective option.

The roof was in need of some major repair work with fixing down the existing Aluminium Alstrip where it had lifted and also there were a number of metal flashings that we replaced. There were several other fixing issues and splits in the aluminium were also present.



The roof needed urgent attention, it was leaking into some of the ward rooms below and they could not be occupied. This was the typical condition of the roof area. We had it high pressure washed prior to replacing any flashings.

We provided a system that was efficient and allowed the wards to run without hindrance to patients, the staff or the effective running of the wards and care for the patients.

The system devised was infilling the Alstrip with 355mm x2400mm x 50mm High Density Foam in-between the ribs. This was first glued then fixed mechanically with washers and screws. Due to the HDF being 50mm high we needed to provide a flush surface for the OneCoat to be sprayed to, the The system devised was infilling the Alstrip with 355mm x2400mm x 50mm High Density Foam in-between the ribs.

This was first glued then fixed mechanically with washers and screws. Due to the HDF being 50mm high we needed to provide a flush surface for the OneCoat to be sprayed to, the ribs were only 30mm high, so we infilled the top of the ribs with backing rod and then applied an MS Firestop Sealant to provide a flush surface.



Once glued and mechanically fixed we used our NP7 Elastomagic Cement to seal all mechanical fixings making them watertight and also providing a bond breaker to the washers and HDF. Prior to the OneCoat application all cross joins of HDF were detailed with NP7 as a bond breaker to take up any movement that may occur.



On finishing all detail works, we masked all appropriate areas to prevent any overspray. Priming was first completed then the application of Neptune Pacific, NP OneCoat was completed.



OneCoat spraying application. Not only have we achieved a watertight roof but this client will now enjoy the benefits of a warm roof and reflectivity of 80% of UV.

Before - Neptune Pacific Ltd OneCoat Application



What a remarkable difference, this roof is now watertight and looking good.





This hospital now has a cost effective roof renewal that is watertight. They have gained the benefits of insulation to reduce electricity costs and they have 80% reflectivity of UV rays. We have issued a comprehensive warranty for application and product. They have received all of these benefits with no disruption to daily business and no inconvenience to staff or patients.