

ULTRATHERM XTREME-FIBERTITE MEMBRANE

The World's Best Thermoplastic Roofing Membrane



Every component within the UltraTherm system has been selected to provide optimal long term roof top performance. This is no more evident than in the selection of the roofing membrane itself.

The world is populated with literally thousands of roofing membranes, from bitumen based torch-ons, to rubber based membranes to PVCs and low cost TPOs.

And then there is FiberTite. FiberTite is the single ply membrane of choice for UltraTherm Xtreme roofing systems because it is, quite simply, the worlds best thermoplastic roofing membrane.

FiberTite is a roofing product that is designed and manufactured without compromise.

The four layer FiberTite membrane synthesises twice as much fibre as other products, incorporates a unique adhesive coat and utilises a proprietary DuPont Elvaloy KEE based formula that provides a tougher, more flexible, durable and longer lasting roofing membrane.

Fibertite's 4- Layer Technology

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Base Fabric

The base fabric is the foundation of any membrane's puncture and tear resistance - the thickness of the compound plays a very minor role. The weight, density and weave profile of the reinforcement is designed and manufactured in house to provide FiberTite with unmatched puncture and tear resistance.

The Adhesive Coat

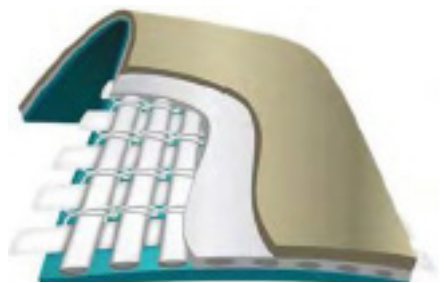
The adhesive coat saturates the individual fibres of the base fabric enabling a molecular bond to form with the back and face coats of the membrane. This eliminates delamination risk and prevents moisture from penetrating a cut edge which can lead to seam failure in other single ply membranes.

Face Coat

Du Pont Elvaloy KEE is the polymeric backbone of the FiberTite membrane, a 35 year proven formula the face coat provides superior UV and chemical resistance to any other roofing membrane.

Back Coat

The same high specification Du Pont Elvaloy KEE is used in equal weights to form the back coating to guarantee more secure, longer lasting seam welds.



Fibertite-Proven Track

“When the sun beats down and the weather turns ugly put your trust in the world’s best roofing membrane”



FiberTite roofs DO NOT fail and have a 35 year in service history. FiberTite was introduced in to the roofing market in 1979 and the original design and chemical composition of the roofing membrane remains unchanged. There have been no documented failures of FiberTite roofs, there have been no warranty claims and the FiberTite roofs that were installed 35 years ago are still in service today.

FiberTite roofing membranes contain in excess of 50% Elvaloy KEE. Created by Du Pont, Elvaloy Ketone Ethylene Ester (KEE) is a solid, flexible, high molecular weight polymer. When blended and incorporated into a roofing membrane in the correct quantities KEE creates a membrane that performs in the harshest climates. Importantly for New Zealand, the high KEE content makes FiberTite the most stable membrane when exposed to severe UV radiation.



Rubber Maid Distribution Centre

Roof Installation- 1984

Rubbermaid’s distribution centre roof is over 100,000 square metres in size. Located in Greenville, Texas, the roof experiences rain, hail, snow, temperature extremes, constant high winds and tornadoes. In a single day, temperatures can fluctuate from over 40°C during the day to freezing at night.



Florida Civic Building

Roof Installation- 1983

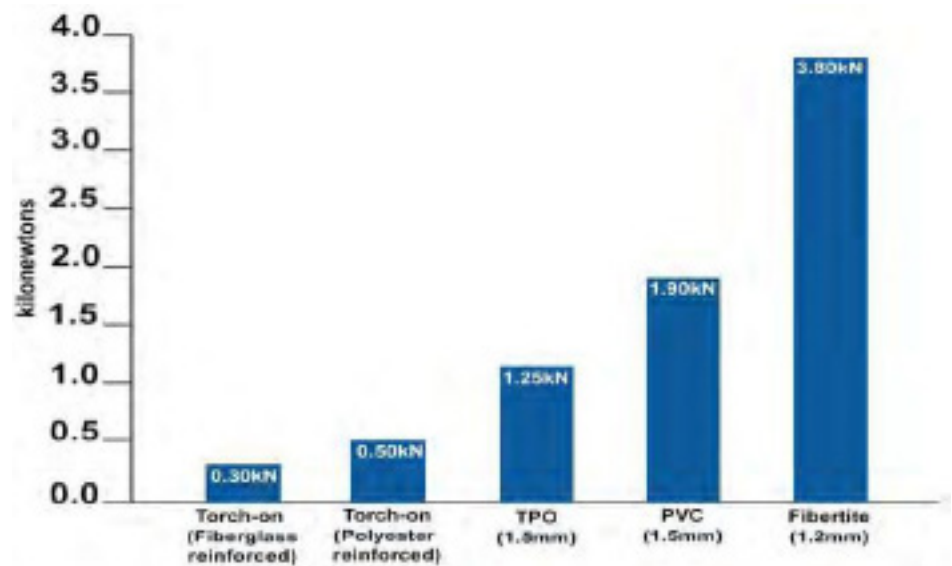
This Florida Civic Building’s roof has been subjected to 23 hurricanes and over 100 tropical storms during the past 30 years, along with Florida’s intense ultra-violet exposure.



Head to www.fibertite.com/project-profiles to see more.

Fibertite-Superior Puncture

The fibre reinforcement within every roll of FiberTite is the basis for the extreme strength and puncture resistance of the membrane. FiberTite has the most densely packed fibre, the strongest yarn and a patented, proprietary knit designs that are the result of thousands of hours of in house R and D.



Fibertite's standard membrane (thickness 1.2mm) has five times the puncture resistance of 4mm bitumen based torch-on membranes. To quote the scientists at FiberTite – thicker isn't better, BETTER is BETTER. And as FiberTite membranes increase in thickness (1.5mm - 2.3mm) the fabric reinforcement gets stronger still, until, quite literally, their puncture resistance goes off the scale.

Fibertite-Superior Chemical Resistance

Roofing membranes can be exposed to a range of chemicals – jet fuels if the roof is nearby an airport, compressor oils and solvents from roof mounted plant and fatty acids and residues from roof extract vents. FiberTite provides superior resistance and even in the most extreme cases of chemical exposure FiberTite will continue to function effectively as a roofing membrane. Exposure to roof top chemicals will not void your FiberTite warranty.

Many other roofing membranes exhibit poor resistance to roof top chemicals and chemical exposure will void most membrane warranties.

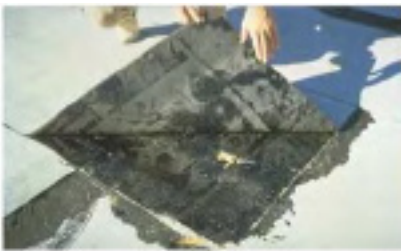


Fibertite roof still performing after decades of exposure to grease and acids from this food processing plant's roof mounted mechanical units.

Fibertite-Superior Seam Strength

The most common cause of membrane roof leaks is seam failure. Seam strength and long term integrity of a FiberTite thermoplastic weld is verifiably more secure and permanent than with any other membrane.

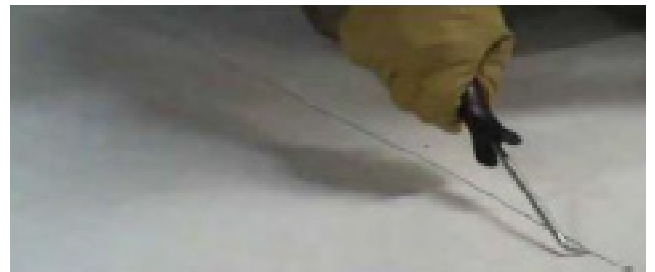
Every FiberTite field weld is individually probed and verified as part of our quality assurance process. A FiberTite field weld will remain secure and permanent for the life of the roofing membrane. Because of the roll width and length of FiberTite membranes there is on average a 60% reduction in the number of field welds required for a FiberTite roof compared to a torch-on membrane roof.



Above: Failed Roofing membranes. Other roofing membranes do not provide the seam strength of FiberTite and lap security cannot be verified at time of installation.

Two photos on right: Rooflogic Robotic Welder, and QA Seam probing.

Fibertite seam strength is superior to any other membrane. Every seam is verified watertight as part of the QA process



Fibertite-Combustibility

Due to their unique chemical composition FiberTite membranes are inherently non-combustible. When FiberTite membrane is exposed to a fire source and that fire source is subsequently removed, the FiberTite membrane will self-extinguish.

Compare this to TPO membranes and butyl rubber membranes which will continue to burn aggressively when the heat source is removed.

