



## Reduction of Heat Loss / Personnel Protection - Heated Columns

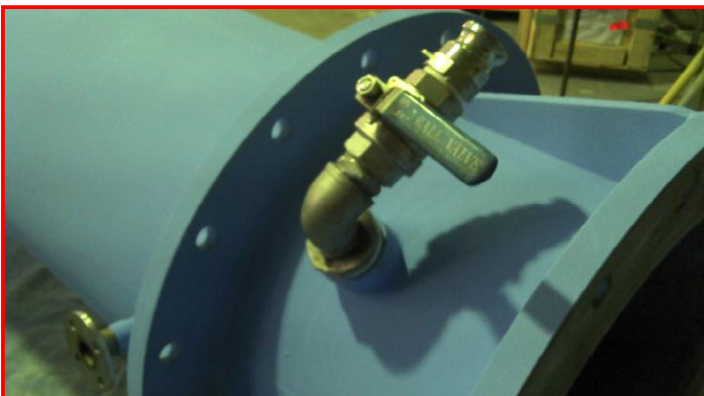


A New South Wales Research facility approached Mascoat to provide a solution to personnel protection and energy retention issues associated with their heated columns. The Stainless steel cylindrical columns used to house ammonia gas were measured to have an internal and external surface temperature of over 60°C which caused concerns for personnel protection as well as heat / energy loss issues.



Mascoat representatives collaborated with the client to calculate temperature reductions and potential energy savings with a 1.5mm application of **Mascoat Industrial Insulation**. Results detailed that, whilst the contents remained at 60°C the coating at 1.5mm thickness would reduce bare skin temperatures of the external tanks to be less than 46°C. Secondly as the heat loss was calculated at 6.3kWh/hr the energy savings were in excess of 50% with the heat loss being reduced down to 2.19kWh/hr with an average saving of around 4.11kWh/hr.

On completion of the thermal analysis the client adopted the recommendation and applied the coating externally to their cylindrical stainless steel heated columns. After application of the coatings, the client was able to observe the calculated reduction of heat loss and increased personnel protection in line with the analysis calculations.



For more information or a quote contact Redjak on 07 3219 2550  
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