

500 Series for Hot Air Impeller



Pre balanced coated fan RU 500



Low friction finish



Completed coated and balanced fan using RS 500P & RU 500

Industry	Mining & Mineral Processing Industry
Date	April 2010
Substrate	Fabricated carbon steel fan
Products	RS 500P RU 500
Challenge	During the extraction of hot air fumes, the fan came under attack from atmospheric moisture and abrasion due to crystalline quartz dust in the air. This was costly and consequently ended in unplanned shut-downs and reduced efficiency. Chemco was asked to supply a coating that would extend the life of the fan and reduce premature failures because of abrasion and corrosion attack.
Chemco's Solution	Chemco Australia recommended a coating system suitable for the corrosive and abrasive environment with the ability to resist high temperatures. The low friction finish reduced foreign body build up and increased efficiency, reducing unplanned shutdowns
Scope	Pre-balance, grind welds, sharp edges & remove weld spatter Abrasive Blast to class 2.5, minimum 50µm profile Apply Epo-chem™ RS 500P in 1 coat Apply Ceram-chem™ RU 500 in 2 coats to a DFT of 400µm - 500µm Post balance to clients required tolerance
Results	The fan has been operating with increased efficiency and no operational issues, the client is now looking at a program to line a further 19 fans based on this success using the RS 500P and RU 500 coating systems.