

Industrial Metal Case Study

Epoxy Repair Paste

Metal Drill Base Stand Large Gouge Repair

An engineer refurbishes a second-hand drill base by rebuilding a deep gouge in the metalwork using Industrial Metal at a fraction of the cost of buying a new stand



A deep gouge had breached the base stand all the way through because of the previous owner allowing the drill to penetrate the metalwork during use



Wooden plates were used to prevent Industrial Metal falling through the gouge to the floor or curing in necessary gaps in the base



Industrial Metal was applied by hand tool, leaving the gouge fully filled and successfully rebuilt



The cured material was sanded down for an ultra-smooth finish seamless with the stand

Defect

The previous owner of the stand allowed the drill to frequently penetrate the base, eventually leading to a deep gouge breaching the metalwork all the way through. Due to the damage, they decided to sell.

Other than the gouge, the stand was in fine condition. The engineer who bought the stand knew refurbishing the base would give them a working second-hand drill stand at a fraction of the cost of buying new.

Solution

Industrial Metal Epoxy Paste was chosen to rebuild and fill the gouge.

A wooden plate was placed underneath the base to prevent paste falling to the floor during application. Further wood was used to ensure necessary gaps in the base were not inadvertently filled with paste.

The metalwork was prepared by removing all traces of rust and grime. The gouge was then roughened with abrasives to create a good key with the epoxy paste.

Industrial Metal was pushed into the gouge using a hand tool until totally filled. The 60 minute work time allowed for careful, accurate application without rushing over fears the paste would set too quickly.

Result

A full cure was achieved in 24 hours, after which the cured metallic material was sanded down to leave an ultra-smooth finish seamless with the rest of the base.

Less than 500g of Industrial Metal was needed to complete the repair. The engineer was delighted to be left with a fully refurbished, working drill stand which will last many years for such a small financial outlay.