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# Press release

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## FIVE DAY REPAIR REDUCED TO EIGHT HOURS WITH LOCTITE RETAINING COMPOUND

By comparison with conventional assembly methods, the use of an engineering adhesive to secure bearings, bushes and cylindrical parts into housings or onto shafts has many merits. These retaining compounds provide an effective and economical method of eliminating loosening, backlash, fretting corrosion and wear by unitising the assembly and ensuring uniform stress distribution.

The LOCTITE® brand is pre-eminent in this field. Applied as a liquid, the LOCTITE retaining compound fills all the voids between mating metal surfaces to create 100 percent contact so load and stress are distributed evenly over the joint. The method eliminates the need for expensive replacements parts, time-consuming machining or the use of mechanical methods such as pins, key/keyway assemblies, splines and serrations, clamp rings and press-, shrink- and taper fits.

However, using a retaining compound in conjunction with shrink fit or press fits has benefits too. It allows higher load transmission and performance with existing design and geometry solutions or equal performance through lower interference and lighter weight constructions.

For most maintenance professionals the decision to use a retaining compound in preference to measures such as machining and sleeving is based on time and efficiency and certainly it was the reason why a cement manufacturer chose this method over mechanical alternatives.

A loose, spinning bearing had damaged a large fan shaft. Although hard facing and machining was considered by the company, it would have resulted in five days of production downtime and concern over the increased likelihood of future weakening from distortion and fretting corrosion.

The preferred solution was the use of the retaining compound LOCTITE 638. Maintenance personnel removed and cleaned the main bearing, applied the adhesive to the shaft and slipped the bearing into position to restore the fan to full working order. This took just eight hours, a small fraction of the time required for hard facing and machining.

WRAS approved LOCTITE 638 is a high strength retaining compound recommended for applications that call for high resistance to dynamic, axial and radial loads. It is ideal for the industrial environment as it tolerates minor surface contaminants and cures on inactive metals without an activator.

For more information go to: www.henkel-adhesives.co.uk