

LOCTITE**Adhesives for more
reliable assemblies****APPLICATION CASE HISTORY****No. 217****DEPEND® ADHESIVE – AN IMPORTANT PART
OF RELIABILITY-BASED MAINTENANCE****Problem:**

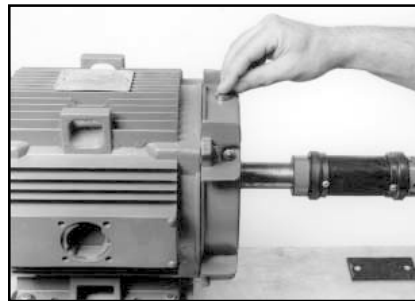
Computational Systems Incorporated (CSI) is in the business of proactive and predictive maintenance—finding and solving problems with vibrating or rotating machinery. One of CSI's major tests—vibration analysis—predicts when a certain machine or component is in the danger of failing. This analysis involves a sensor mounted on the machine to measure frequency response, the basis for vibration analysis. In this operation, a mounting pad to hold the sensor is attached to the machine by means of an adhesive. CSI tried a number of adhesives to hold the mounting pad, but none provided the necessary combination of adhesion and vibration resistance.



Depend No-Mix Adhesive is applied to the sensor.

Solution:

Depend® No-Mix Adhesive proved to meet CSI requirements exactly. Unlike other adhesives, this easy-to-use adhesive does not require any measuring, mixing or heat cure. Before using Depend, CSI tested the adhesive extensively on a shaker table. The Depend adhesive system is unique in that it can withstand more abuse and vibration than the many two-part epoxies and one-part, room-temperature cured adhesives tested by CSI.



Depend Activator is sprayed where the sensor mounting pad will be placed.

Results:

For CSI's demanding uses, Depend's durability under extremes of temperature (-60°F to +250°F) and its flexibility assures accurate frequency response readings.

Located in Knoxville, Tennessee, CSI serves leading maintenance-conscious organizations. Because of their positive experience with Depend, CSI offers a Loctite adhesive in its custom-mounting kits.



Held firmly in place by Depend Adhesive, the mounting pad will enable the sensor to provide accurate readings of the equipment's condition.

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